OBG

REPORT

**Facility Soil Vapor Summary Report** 

**GE Aviation Evendale, Ohio** 

November 2016



NOVEMBER 30, 2016 | 612 | 62577

# **Facility Soil Vapor Summary Report**

Evendale, Ohio

Prepared for: GE Aviation

make Track

MATT TRAISTER, P.E., VICE PRESIDENT

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#### 1. INTRODUCTION

O'Brien & Gere (OBG) was retained by the General Electric Company (GE) to perform an assessment of the soil vapor pathway at the GE Aviation facility (Facility) located in Evendale, Hamilton County, Ohio (Figure 1). Prior to beginning the assessment, a Work Plan was prepared to address USEPA's comments on the Corrective Measures Study (CMS) Interim Report for soil vapor (OBG, 2015). The assessment activities discussed herein were conducted in accordance with the Work Plan.

#### 1.1 SITE LOCATION

The GE Aviation facility is located on an approximately 400-acre site in southwestern Ohio, approximately ten miles north of Cincinnati. The Facility is a secure, highly active, long-term manufacturing facility located within the heavily industrialized I-75 corridor between Cincinnati and Evendale, Ohio. The Facility has been used for military and commercial aircraft engine manufacturing since the 1940s.

### 1.2 SITE BACKGROUND

Beginning in late 2006, GE conducted vapor monitoring activities at the Facility, primarily in the southern portion of the Facility formerly operated by the US Air Force and referenced as Former AFP 36 (OBG, 2007). As part of the first round of sampling in 2006, limited sub-slab and indoor air samples were collected within Buildings 700 and 800 (sub-slab and indoor air) and Buildings 500, 703, B and C (indoor air only). A summary of the soil vapor assessment activities and results was provided within the 2015 CMS Interim Report for the soil vapor pathway. Regarding the offsite vapor pathway, USEPA provided feedback, via an e-mail from Mr. Todd Gmitro, dated July 30, 2015, that indicated the offsite soil vapor pathway was incomplete and no further evaluation offsite was necessary beyond the southern property line. Regarding the onsite vapor pathway, however, USEPA requested further evaluation.

At the time of the 2006 sampling, each of the buildings identified above was occupied by plant employees for 8-hour work shifts and contained active manufacturing operations. Buildings B and C were demolished in late 2015 and early 2016 as part of a site-wide campus renovation program. Indoor air samples collected in 2006 did not reveal CVOCs, primarily trichloroethene (TCE) and tetrachloroethene (PCE), above applicable indoor air screening levels. The screening levels were re-evaluated as part of the 2015 Interim Report using updated VI guidance and attenuation factors from USEPA (USEPA, 2012) and the result of the evaluation indicated that TCE and PCE in indoor air samples were below screening values. Based upon USEPA comments on the 2015 Soil Vapor Interim Report, screening levels for TCE and PCE in soil vapor and indoor air were lowered to reflect a target hazard quotient of 1, as shown in the table below. Recommended screening levels for industrial land use were modified to the following:

	Industrial Soil Vapor Screening Levels	(μg/m³)
	Parameter	
Tetrachloroethene (PCE)		5,600
Trichloroethene (TCE)		280
	Industrial Indoor Air Screening Levels	(μg/m³)
	Parameter	
Tetrachloroethene (PCE)		168
Trichloroethene (TCE)		8.4

#### 1.3 TECHNICAL APPROACH

Based on the site-specific building information presented within the Work Plan, GE sampled sub-slab soil vapor and indoor air at Building 800 to quantitatively evaluate the soil vapor pathway. As explained in the Work Plan,



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Building 800 was selected for sampling because it represents the largest subgrade structure at the Facility, by square footage, and is the building located nearest the highest groundwater concentrations of chlorinated volatile organic compounds (CVOCs) at the Facility.

The active groundwater pump and treat system and its associated extraction wells are located closest to Building 800. In addition, recent data from groundwater monitoring wells both to the north and south of Building 800 suggest that CVOCs may be located within groundwater beneath the footprint of the building. By evaluating the basement area, which is closest to groundwater, the Building 800 basement represents the "worst-case" scenario for the soil vapor pathway. Moreover, based on differential pressures and air flow demonstrations, each of which was documented in the Work Plan, the basement portion of the building is negatively pressured with respect to both ambient outdoor air, as well as relative to the first floor.

The details regarding the assessment activities for Building 800 are discussed below.

### 1.4 OBJECTIVES

The sampling objective was to evaluate CVOCs in soil gas and indoor air at Building 800, based on the factors discussed in the approved Work Plan.



#### 2. SAMPLING ACTIVITIES

OBG, on behalf of GE Aviation, collected sub-slab vapor and indoor air samples from the basement of Building 800 between March 21 and 23, 2016 and between October 10 and 12, 2016. The details regarding the completed assessment activities for Building 800 are discussed below in the following subsections.

#### 2.1 ASSESSMENT TASKS

### 2.1.1 Site Reconnaissance and Utility Clearance

Prior to sample collection, OBG and GE Aviation personnel performed a reconnaissance to establish representative sampling locations. Each location was evaluated for safety and security, in order to minimize the impact on production operations and to confirm that the sampling equipment would not be disturbed. Signage was also hung near each sampling location indicating that environmental sampling was occurring. Each location was cleared by GE Aviation. Approved locations are shown on Figure 2.

OBG then contracted The Underground Detective (TUD) to perform a concrete scan of the proposed sampling locations. TUD was able to identify steel re-bar within the concrete and observe for utility corridors that may have been installed within the concrete. The scanner also had the capability to see several inches below the base of the concrete for potential subgrade utilities. During the scanning activities, which occurred on March 17, 2016, there were no utilities observed within or immediately below the concrete requiring movement of the sampling probe. According to the scanning device, approximate concrete thicknesses for the sampling locations ranged from 6 to 10 inches. Concrete thickness was confirmed during the installation of the sub-slab soil vapor point installation activities discussed in Section 2.1.2 below.

During the second round of sampling, only a site reconnaissance was performed, to ensure that previous sampling locations could be found and that equipment or storage of items was not going to hinder sampling activities. Utility clearance was not performed, based on the lack of construction activities within the building since the last event.

#### 2.1.2 Sub-Slab Soil Vapor Point Installation

On March 21, 2016, OBG personnel revisited each sampling location to install the sub-slab sampling points. When installing the points, a hammer drill equipped with a 3/8-inch diameter drill bit was advanced through the slab and into the subbase/soil material beneath the slab. Slab thicknesses were documented on field forms. Once the drilling was completed, the concrete dust was swept up and the hole cleaned with a dry brush. ¼-inch outside diameter (0.D.) Teflon®-lined tubing was then placed into the hole such that the tubing extended below the base of the concrete slab. Non-VOC permagum material was then placed around the tubing and slightly into the annular space between the tubing and drill hole to provide a seal. The end of the tubing was capped with permagum and a cone placed over the sampling point in preparation for sampling. Signage was hung on the wall adjacent to the sampling point and on the cone. These same procedures were followed during the second event on October 10, 2016, with the tubing placed through the previously installed drill hole.

### 2.1.3 Sub-Slab Soil Vapor Point Sample Collection

Following a 2-day period to allow for the sub-slab soil vapor sampling point installation to equilibrate, OBG remobilized to the Building 800 basement sampling locations on March 23, 2016, as shown on Figure 2. At each location, a shroud was placed over the tubing and sampling point and helium introduced into the shroud via separate tubing. Concurrent with the introduction of helium to the shroud, the sampling tubing was connected to a manual pump with a Tedlar® bag attached to the end of the tubing. Once the helium had been introduced to the shroud, a battery-operated drill was used to turn the pump and draw sub-slab vapors into the Tedlar® bag. Once the Tedlar® bag had been filled, the tubing was disconnected from the pump and briefly connected to a photoionization detector (PID) used to measure the level of total VOCs within the sampling tubing. The tubing was then capped and the Tedlar® bag monitored with a helium detector. This same process was repeated for each of the seven sampling locations, with PID concentrations and helium concentrations recorded on field



sampling forms, which have been included as Appendix A. It should be noted that according to typical sampling guidance, concentrations of less than 5%, by volume, of helium (50,000 ppm) are considered representative of a good seal. A summary of pre-sampling conditions at each location during the March 2016 event is provided in the table below:

Sub-Slab Sampling Location	Helium Concentration in Grab Sample (ppm)	Sub-Slab PID Measurement (ppb)	Indoor Air PID Measurement (nob)
800-1	0.0	598	0.0
800-2	0.0	224	0.0
800-3	1,000	792 .	0.0
800-4	0.0	696	0.0
800-5	0.0	596	0.0
800-6	0.0	354	0.0
800-7	0.0	0.0	0.0

Once the sampling point and tubing were demonstrated to be sealed, the tubing was connected to a laboratory-supplied, batch-certified 6-liter Summa® canister using a new, brass compression fitting. Prior to the connection, each of the canisters was checked for vacuum pressure with a digital manometer and the pressures recorded on the sampling forms, chain of custody and on the canister labeling. The shrouds were left in place during sampling so as not to inadvertently disturb or affect the seal. Following successful connection to the Summa® canister, the regulator, which was laboratory calibrated to sample for approximately 8 hours, was opened, with the time of sample commencement recorded on the sampling form, chain of custody and canister labeling. Throughout the 8-hour sampling window, the analog vacuum gauge on the regulator was monitored every 1-2 hours to check vacuum levels and demonstrate that sub-slab soil vapor was continuing to be introduced into the canister for analysis. Photographs taken during sampling activities have been included in Appendix B.

Following the full 8-hour period, or at a time when a vacuum of between -5 and -7 millimeters of mercury (mm Hg) remained on the analog gauge, each canister was closed, completing the sub-slab soil vapor sampling process. Initial and final pressures for the canisters are included on both the sampling forms as well as on the laboratory chain of custody forms. During the March 2016 event, each sample was collected over a period ranging from 7-8 hours, with no apparent issues noted regarding the regulators or canisters.

Once the canister had been closed and disconnected from the tubing, the tubing and shroud were removed from each sampling point and the hole backfilled with quick-drying hydraulic cement. Cones were left at each location so as to allow for the concrete to cure. GE Aviation security was notified of the completion of sampling and that the cones could be safely removed.

These same procedures were followed during the October 2016 event, with sampling activities occurring on October 12, 2016, two days following the installation of the sampling points. Each sample was collected over a period ranging from 7-8 hours, with the exception of sub-slab sampling location 800-5-SS, which was sampled over a 6 hour period, presumably due to a poorly calibrated flow controller. A summary of pre-sampling conditions at each location during the October 2016 event is provided in the table below:

Sub-Slab Sampling	Helium Concentration in		
The Location Control	Grab Sample (ppm)	(ppb)	Reference in (ppb)
800-1	0.0	2,223	0.0
800-2	0.0	0	0.0
800-3	186	1,756	182
800-4	0.0	71	53
800-5	0.0	1,012	98



Sub-Slab Sampling	Helium Concentration in	Sub-Slab PID Measurement	ndoor Air PID Measurement
Location	Grab Sample (ppm)	(ppb) - was a second	
800-6	100	145	175
800-7	0.0	22	0.0

### 2.1.4 Indoor Air Sample Collection

Concurrent with the sub-slab sampling, co-located indoor air samples were also collected at the locations noted on Figure 2. As part of the indoor air sample collection, laboratory-supplied, individually-certified 6-liter Summa™ canisters were placed proximate to the sub-slab sampling locations. The canisters were equipped with 8-hour sampling regulators, similar to the sub-slab canisters. The canisters were gauged for vacuum pressures using a digital manometer and recorded prior to opening the canister. Consistent with USEPA sampling guidance, the canisters were set on buckets, chairs or other nearby stored items such that the air intake was located within the "breathing zone," between 3 and 5 feet above the slab. Similar to the sub-slab sampling activities identified above, vacuum pressures were checked every 1-2 hours throughout the sampling process.

Following the full 8-hour period, or at a time when between -5 and -7 millimeters of mercury (mm Hg) remained on the analog gauge, each canister was closed, completing the indoor air sampling process. Initial and final pressures for the canisters are included on both the sampling forms as well as on the laboratory chain of custody forms. During the March 2016 event, each sample was collected over a period ranging from 7-8 hours and corresponded with the co-located sub-slab samples (*i.e.*, the sub-slab and indoor air canisters were started and stopped at approximately the same time), with the exception of indoor air location 800-1, which was sampled for approximately four hours, presumably due to a poorly calibrated flow controller.

During the October 2016 event, each sample was collected over a period ranging from 7-8 hours and corresponded with the co-located sub-slab samples with no apparent issues noted with the regulators or canisters, with the exception of indoor air sampling location 800-6-IA, which was sampled over a 5 hour, 48 minute period, presumably due to a poorly calibrated flow controller.

In addition, as part of the indoor air sampling process in both March and October 2016, OBG generated a chemical inventory list of items that were present in the vicinity of the sampling locations. Based on the inventory, five of the seven locations did not contain chemical storage within close proximity to the sampling locations. At sampling location 800-3, a spray bottle of disinfectant cleaner was observed during both events. At sampling location 800-5, fork truck batteries and a hydraulic motor, labeled as containing UCON Hydrolube 732, were both observed within close proximity to the sampling location during both events. However, these items were not anticipated to affect indoor air quality results, and therefore, were not moved. The chemical inventory forms, along with the indoor air sample collection forms, are located in Appendix A.

## 2.1.5 Outdoor (Ambient) Air Sample Collection

Outdoor ambient air samples were also collected as part of the assessment process at locations denoted on Figure 2. The outdoor samples were collected to serve as ambient, background data to identify if outdoor air was affecting indoor air quality. Laboratory-supplied, individually-certified 6-liter Summa™ canisters were placed on the north and south sides of the building, based on prevailing wind directions noted on the day of sampling, which were out of the southwest during both the March and October 2016 sampling events. The canisters were equipped with 8-hour sampling regulators, similar to the sub-slab and indoor air canisters. The canisters were gauged for vacuum pressures using a digital manometer and recorded prior to opening the canisters. The canisters were set either on a bucket, or in the case of the northern sample (800-AA-2), set on an elevated curb. Vacuum pressures were checked throughout the sampling process. The canister was equipped with a funnel and clean tubing to prevent moisture from inadvertently entering the canister, although no precipitation was noted during both sampling events. During both events, samples were collected over a 7-8 hour period, consistent with sub-slab and indoor air methodology. Field forms associated with the outdoor air sample collection are located in Appendix A.



### 2.2 LABORATORY ANALYSIS AND DATA QA/QC

Sampling canisters and regulators were shipped under chain of custody to Eurofins Lancaster Laboratories Environmental (ELLE) in Lancaster, Pennsylvania following both sampling events. Samples were analyzed for the CVOC list specified below by USEPA Method TO-15.

The CVOC analytes included the following compounds:

- **™** TCE
- PCE
- Carbon tetrachloride
- Chloroethane
- 1,1-Dichloroethane
- 1.2-Dichloroethane
- 1.1-Dichloroethene
- *cis*-1,2- Dichloroethene
- trans-1,2- Dichloroethene
- 1,1,1-Trichloroethane
- Vinyl chloride

As mentioned previously, canisters that were used to analyze the indoor and outdoor air samples were individually certified by the laboratory. Canisters that were used to collect sub-slab soil vapor samples were batch-certified by the laboratory, which requires that a certain percentage of the canisters, selected at random, go through the certification process. As shown on the data presented in Section 3.0, the laboratory reporting limits for the compounds from batch-certified canisters are higher than the individually-certified canisters. It should be noted that the reporting limits of the batch-certified canisters still meet applicable screening levels for sub-slab soil vapor.



#### 3. RESULTS

#### 3.1 DATA EVALUATION AND SCREENING

Data from the March and October 2016 events are presented in Table 1. OBG evaluated the data and compared them to established USEPA VI screening levels for the industrial land use pathway. The screening levels for TCE and PCE were previously established within the 2015 Interim CMS Report for soil vapor. However, upon review of the 2015 Interim Report for soil vapor, USEPA requested modified industrial screening levels that are based on a target hazard quotient of 1. The new screening levels identified specifically for sub-slab and indoor air for TCE and PCE were established in Section 1.2 and are provided in Table 1. Laboratory analytical results for both events are provided in Appendix C.

### 3.1.1 Sub-Slab Soil Vapor Data

During the March 2016 event, concentrations of TCE were greater than the soil vapor screening level of 280 micrograms per cubic meter ( $\mu g/m^3$ ) at each of the seven locations, ranging from a low of 1,700  $\mu g/m^3$  at location 800-7 to a high of 35,000  $\mu g/m^3$  at location 800-1. Levels of PCE were less than the soil vapor screening level. It should be noted that although screening levels were not generated for the remaining CVOC constituents, concentrations of these other constituents do not approach anticipated screening levels. For example, 1,1,1-trichloroethane has an indoor air screening level of 220,000  $\mu g/m^3$ , which corresponds to a soil vapor screening level of 7,333,333  $\mu g/m^3$ .

During the October 2016 event, concentrations of TCE were again greater than the soil vapor screening level of 280  $\mu g/m^3$  at each of the seven locations, consistent with results from March 2016. The concentrations ranged from a low of 1,600  $\mu g/m^3$  at location 800-7 to a high of 39,000  $\mu g/m^3$  at location 800-1. Also similar to March 2016, levels of PCE were again less than the established soil vapor screening level. Detections of other CVOC constituents were consistent between the March and October sampling events.

### 3.1.2 Indoor Air Data

During the March 2016 event, each indoor air analytical result was less than the approved screening levels. TCE was detected in each of the indoor air samples, ranging from a low of 0.463  $\mu g/m^3$  at location 800-2 to a high of 1.39  $\mu g/m^3$  at location 800-1, below the screening level of 8.4  $\mu g/m^3$ . PCE was also detected at each of the sampling locations, ranging from a low of 0.383  $\mu g/m^3$  at location 800-4 to a high of 0.665  $\mu g/m^3$  at location 800-5, below the screening level of 168  $\mu g/m^3$ .

During the October 2016 event, indoor air analytical results were less than the established screening levels, consistent with the March 2016 event. TCE was detected in each of the indoor air samples, ranging from a low of 0.935  $\mu$ g/m³ at location 800-2 to a high of 2.86  $\mu$ g/m³ at location 800-6, below the screening level of 8.4  $\mu$ g/m³. PCE was also detected at each of the sampling locations, ranging from a low of 0.307  $\mu$ g/m³ (estimated 'J' flagged value) at location 800-5 to a high of 0.755  $\mu$ g/m³ at location 800-6, below the screening level of 168  $\mu$ g/m³.

### 3.1.3 Outdoor Air Data

During the March and October 2016 events, both TCE and PCE were detected in both ambient outdoor air samples, along with several other CVOCs, none of which approached the screening levels. The concentrations of TCE and PCE in the ambient outdoor air samples were similar to those observed in indoor air locations. Concentrations of TCE at the two outdoor locations measured 0.736  $\mu g/m^3$  and 0.407  $\mu g/m^3$  at locations 800-AA-1 and 800-AA-2, respectively, during the March 2016 event and 0.49  $\mu g/m^3$  and 0.468  $\mu g/m^3$  during the October 2016 event. Each of these values is within the range of TCE values found within the indoor air samples during both the March and October 2016 sampling events (ranged from 0.463  $\mu g/m^3$  to 2.86  $\mu g/m^3$ ). Similarly, concentrations of PCE at the two outdoor locations measured 0.651  $\mu g/m^3$  and 0.383  $\mu g/m^3$  at locations 800-AA-1 and 800-AA-2, respectively, during the March 2016 event and 0.289  $\mu g/m^3$  and 0.299  $\mu g/m^3$  (both estimated 'J' values) during the October 2016 event. These values are within the range of PCE values found within the indoor air samples during both events (ranged from 0.307  $\mu g/m^3$  to 0.755  $\mu g/m^3$ ).



#### 4. DISCUSSION

Sub-slab soil vapor concentrations were detected above established soil vapor screening levels during both the March 2016 and October 2016 sampling events. Concentrations of CVOCs at specific sub-slab and indoor air sampling locations did not appear to differ appreciably between the two events. Additionally, corresponding indoor air concentrations were less than the established indoor air screening levels, indicating, based on these seasonally different events (which occurred during high and low groundwater conditions), that there are no appreciable levels of VI occurring and the existing concrete slab is serving to attenuate underlying soil vapor. The outdoor ambient sampling results suggest that indoor air concentrations of TCE and PCE are likely impacted by ambient air concentrations and that VI, although it has the potential to exist, is not occurring at an appreciable rate.

OBG recommends that continued monitoring be conducted during 2017 for the VI pathway in the form of two additional indoor air sampling events within Building 800 to demonstrate compliance with approved screening levels. Based on the evaluation that Building 800 was the most susceptible and likely building to experience VI-related issues, no further assessment of the VI pathway in Buildings 500, 700 or 703 is recommended.

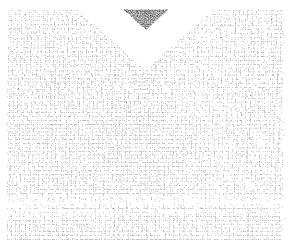


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- U.S. Environmental Protection Agency, 2012. Vapor Intrusion Database: Evaluation and Characterization of Attenuation Factors for Chlorinated Volatile Organic Compounds and Residential Buildings. EPA 530-R-10-002. March 2012.





## Tables

Table 1
Sub-slab and Indoor Air Data - Building 800
Summary Data - March 2016 and October 2016 Sampling Events (µg/m³)

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Sampling Location	Sample ID	Sample Type	Sumple Oute			100								
	62577-800-1-SS	Sub-Slab		31,000	810 J	1,400	<160	<250	<110	<160	290	<160	35,000	<100
	62577-800-1-IA	Indoor Air	3/23/2016	2.34	0.238	0.313	0,329	0.941	<0,0528	0.246	0.482	0.38	1.39	<0.0511
800-1	62577-800-1-SS	Sub-Slab		41,000	1,400	2,600	<16	<25	<11:	140	580	50.1	39,000	<10
	62577-800-1-IA	Indoor Air	10/12/2016	1.88	0.245	D.346	<0.0809	0.937	<0.0528	0.268	0.365	1.73	1.29	<0.0511
	62577-800-2-SS	Sub-Slab		6,300	<81	<79	<81	<130	<53	<79	<140	<79	6,900	<\$1
	62577-800-2-IA	Indoor Air	3/23/2016	0.843	0.0971 J	0.104 J	0.247	0.847	<0.0528	<0.0793	0.54	0.0980 J	0.463	<0.0511
800-2	62577-800-2-IA	Sub-Slab		8,600	<15	24 J	×16	<25	<11	<16	210	<16	2,400	<10
	62577-800-2-33	Indoor Air	10/12/2016	1.56	0.153 J	D.150 J	<0,0809	1.39	<0.0528	0.159 J	0.335 J	4	0,935	<0.0511
					<81		<81	<130	<53	<79		<79		::::: <51:::::::
	62577-800-3-SS	Sub-Slab	3/23/2016	12,000 2.32	0.207	<79	0,298	0.799	<0.0528	<0.0793	0.565	2.44	13,000	
800-3	62577-800-3-IA	Indoor Air				0.22		U./99 <b>₹25</b>	<0.0528				1,34	<0.0511
	62577-800-3-SS	Sub-Slab		15,000 3,17	0.490	<16	<15			<16	1,800	<16	14,000	<0.0511
	62577-800-3-IA	Indoor Air			l .	0.806	<0.0809	0.658	<0.0528	0.351	0.389	0.728	2,5	
	62577-800-4-SS	Sub-Slab	3/23/2016	9,100	<81	<79	<81	<130	<53	<79	1,300	<79	4,200	<51:
800-4	62577-800-4-IA	Indoor Air	-,,	1.74	0.143 j	0.208	D.194 J	0.791	<0.0528	1,04	0.383	0,703	1.05	<0.0511
	62577-800-4-55	5ub-Slob	10/12/2016	11,000	29 J	<15	<16	<25	<11	<16	2,400	<16	5,200	<10
	62577-800-4-IA	indoor Air	,,	1.89	0.193 /	0.272	<0.0809	0.746	<0.0528	0.275	0.372	1.53	1.13	<0.0511
	62577-800-5-55	Sub-Slab	3/23/2016	12,000	3001	<79	<81	<130	<53	<79	140 J	<79	11,000	<51
800-5	62577-800-5-IA	Indoor Air	3, 25, 2515	1.69	0.194 J	0.233	0.347	0.9	<0.0528	< 0.0793	0.665	0.516	0.992	<0.0511
000-3	62577-800-5-SS	Sub-Slob	10/12/2016	15,000	530	37 j	<16	<25	<11	110	260	22 1	11,000	<10:
	62577-800-5-IA	indoor Air	10/12/2010	1.13	0.169 )	<0.0793	<0.0809	0.642	<0.0528	<0.0793	0,307 J	1.5	1	<0.0511
	62577-800-6-55	Sub-Slab	3/23/2016	4,500	<16		<16	<25	<11	<16	680	<16	2,000	<10
800-6	62577-800-6-IA	Indoor Air	3/23/2010	2.03	0.122 /	0.168 J	0.174 J	0.739	<0.0528	< 0.0793	0.455	0.1971	1	< 0.0511
600-9	62577-800-6-SS	5ub-Slab	10/12/2016	4,300	<16	83	<16	<25	<11	<16	780	<16	2,100	<10
	62577-800-6-IA	indoor Air	10/12/2010	3,86	0.454	0.685	<0.0809	0.716	< 0.0528	0.445	0.755	2.5	2.86	<0.0511
	62577-800-7-SS	5ub-Slab	3/23/2016	2,200	<15	<16	<15	< 25	<11	<16	220	<15	1,700	<10
	62577-800-7-IA	Indoor Air	3/25/2016	1.97	0.1183	0.191 J	0.180 J	0.716	<0.0528	<0.0793	0.413	0.203	1.12	< 0.0511
800-7	62577-800-7-SS	Sub-Slab	50/43/2045	2,500	<16 ::	<15	<16	<25	<11	<16	270	<16	1,600	<10
	62577-800-7-IA	Indoor Air	10/12/2016	3.23	0.354	0.434	0.319	0.63B	< 0.0528	0.307	0.695	0.942	2.51	<0.0511
	62577-800-AA-1	Outdoor Ambient	3/23/2016	0.705	0.256	<0.0793	<0,0809	1.03	D.351	0,345	0.651	<0.0793	0,736	0.216
AA-1	62577-800-AA-1	Outdoor Ambient	10/12/2016	0.674	. 0.103 J	<0.0793	<0.0809	0.775	<0.0528	0.96	0.289 J	0.154)	0.49	<0.0511
	62577-800-AA-2	Outdoor Ambient	3/23/2016	0.384	<0.0809	<0.0793	<0.0809	0.822	<0.0528	< 0.0793	0.383	0.123 /	0.407	<0.0511
AA-2	62577-800-AA-2	Outdoor Ambient	10/12/2016	0.614	< 0.0809	<0.0793	<0.0809	0.759	<0.0528	<0.0793	0.299 J	< 0.0793	0.468	<0.0511
20000000000000000000000000000000000000	1 0201/ 000 00-2	Transaction of the second			lanenseasann sarars	are commence and a second	less-merchanismus extremes	descension and the second	hannamaranan	Announcement of the same	<del>eks maximonomonos</del>	denning and a second	***************	mercum comments

#### Notes:

If values represent laboratory-estimated concentrations and represent values below laboratory reporting limits but above laboratory method detection limits.

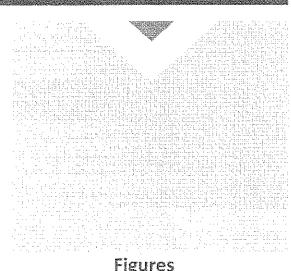
Highlighted values represent concentrations above established industrial soil vapor screening levels.

There were no exceedences of established industrial indoor air screening levels.

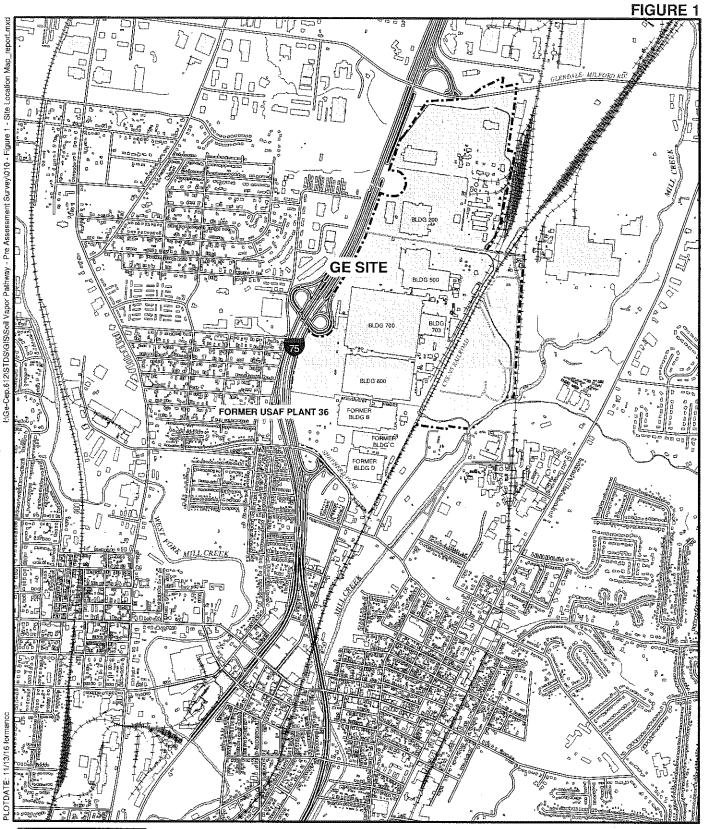
Industrial Soil Vapor Screening Levels:

TCE: 280 µg/m³ PCE: 5,600 µg/m³ Industrial Indoor Air Screening Levels:

. TCE: 8.4 μg/m<sup>3</sup> PCE: 168 μg/m



Figures



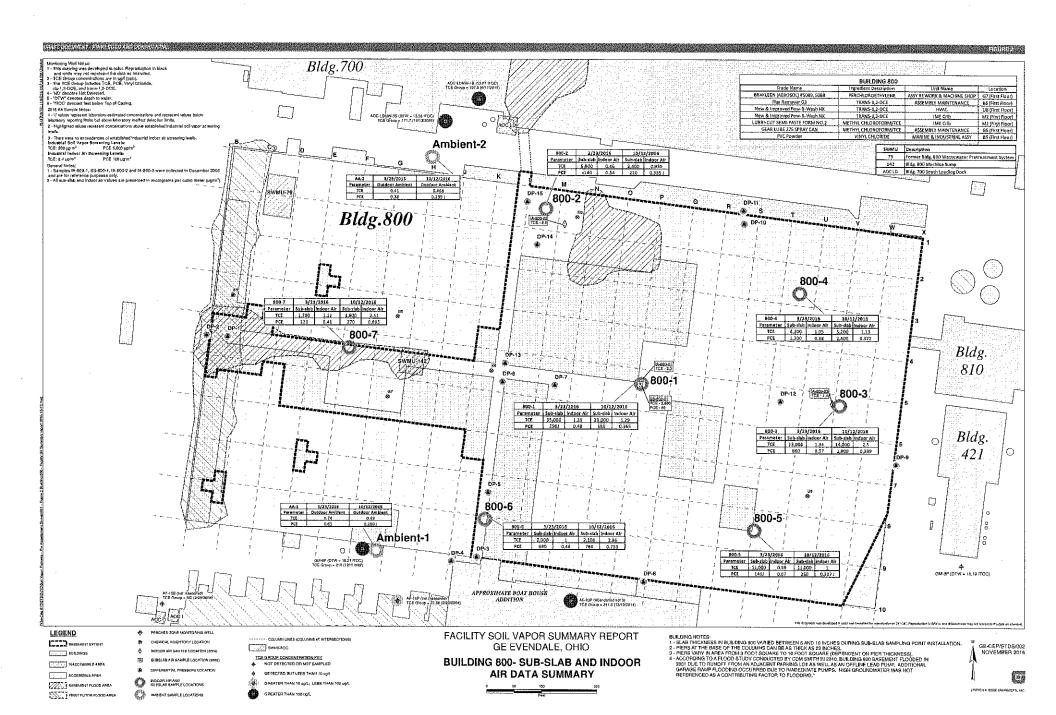


FACILITY SOIL VAPOR SUMMARY REPORT GE EVENDALE, OHIO

## SITE LOCATION MAP







Appendix A Field Forms



Project# 62577.0"	10 Date	3/23/16
Project Name Facility Va	por Assessment Collector	CF/TP
Structure Location	Sample L	ocation <u>s</u>
E/W Hallway		en cols. P5/3 N Pa5/3
PID/FID meter ID		
Sample Duration (Intended) 8	hrs	
		Circle Sample Type: Indoor Air
Indoor Air Sample	Sub-structure Sample	SS-DUP Ambient IA-DUP
Sample ID <u>800 - 1 - IA</u>	Sample ID 800-1-SS	Sample ID <u>800 - AA - 1</u>
Canister ID 866	Canister ID	Canister ID 1216
Flow Controller ID 415282	Flow Controller ID 336712	Flow Controller ID 301135
Date/Time start 3 23 16 856	Date/Time start 3/23/6 856	Date/Time start 3 23 14 920
Date/Time end 3 23/16 1300	Date/Time end 3/23/16 /6 <sup>32</sup>	Date/Time end 3 23 16 1653
Gauge prior to start 0.0	Gauge prior to start	Gauge prior to start
Start pressure	Start pressure -29.2	Start pressure
End prèssure	End pressure	End pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F) 70	Air temperature (°F) 70	Air temperature (°F) 59°F
PID/FID reading (), () 00 b	PID/FID reading 598 oab	PID/FID reading 0 ppb
in. tubing used 1/4 iv	in, tubing used	in, tubing used NA
Tubing purged?	Tubing purged?	Tubing purged? NA
1	Chamber tracer gas	Location: south side
·	concentration: 50% He	of Bldg. 600,
	Tracer gas concentration	west of boots gave
	during purging: 0.0 mm	
For indoor location:	For indoor location:	For outdoor location:
Noticeable odorN	Noticeable odor N	Noticeable odor N
Intake height above floor (in) HH,	Floor slab depth 011	Distance to road (ft) 50 Pt
Floor surface	intake depth   2	Direction to closest building (degrees)
type (OWONATE	Floor surface	Distance to closest
Room Hallway	type <u>Concrete</u>	building (ft) 15 ft
Storylievel Rosement.	Room Hallware	Intake height above ground level (in)
	Storylevel Rosement	in a si
Building Survey and Chemical Inver	stony Form Completed?	/
Photographs Taken?	nory Form Completed?	
Filologiapits Fakeri	<del></del>	<del></del>
Comments:		
annumber - Sp.		
Analytical method required		
Laboratory used		



Project # 6,2577.040	Date	3/23/14
Project Name Facility Vapor	Assessment Collector	CF/TD
Structure Location	Sample L	ocations .
Tool Design Room	14'0'	ocations North of col. Ub2 "West of Gol. Lb2
PID/FID meter ID	4'10	" West of ool. Lb2
Sample Duration (Intended)	S	
		Circle Sample Type: Indoor Air
Indoor Air Sample	Sub-structure Sample	SS-DUP Ambient (A-DUP
Sample ID 200-2-IA	Sample ID 900-2-55	Sample ID
Canister ID 1336	Canister ID 543	Canister ID
Flow Controller ID 339290	Flow Controller ID 252295	Flow Controller ID
Date/Time start 3/23/16 910	Date/Time start 3 23 16 910	Date/Time start
Date/Time end 3/23/16 1637	Date/Time end 3/23/14 1437	Date/Time end
Gauge prior to start (1, (2)	Gauge prior to start 0.0	Gauge prior to start
Start pressure -29.2	Start pressure -28.8	Start pressure
End pressure - 8.3	End pressure -9.5	End pressure
Complete all that apply:	Complete all that apply:	Complete all that adply:
Air temperature (°F) 70	Air temperature (°F) 70*	Air temperature (°F) \
PID/FID reading Opp5	PID/FID reading 224 mb	PID/FID reading
in. tubing used Ye'iu	in. tubing used / Y in	in, tubing used
Tubing purged?	Tubing purged?	Tubing purged?
	Chamber tracer gas	
	concentration: 50% He	\
	Tracer gas concentration	\
	during purging: O MOVA	
For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odorN	Noticeable odor
Intake height 3 CL	Floor slab depth ~ 7"	Distance to road (ft)
above floor (in) 3+1.	Intake depth	Direction to closest
type carnet concrete	below floor (in)	building (degrees)
	Floor surface	Distance to closest
Room lool Design tom	type <u>Courps Consider</u>	building (ft)
Story/level Rasement	Room Tool Design Room	I I
	Story/level Rasement	
Building Survey and Chemical Inventor	v Form Completed?	<b>V</b>
Photographs Taken?	J. Will waterproposes	4
	<del>,</del>	
Comments:		
L/L-MANINGAMENTAL ATT		
Analytical method required		
Laboratory used		



Project # 62577.040	2	Date	3/23/16	_
Project Name Facility Vapor	Assessment	Collector	cf/in	
Structure Location	•	Sample Locat	ions	
Near compenter's sho	0 -	between	col. V5 8 V5 1/3	
PID/FID meter ID				_
Sample Duration (Intended) 8V	us_			
			Circle Sample Type: Indoor Air	٦
Indoor Air Sample	Sub-structure San	<u>aple</u>	SS-DUP Ambient IA-DUP	_
Sample ID 800-3-IA	Sample ID 800-	3-SS -	Sample ID 800-AA-2	
Canister ID 526	Canister ID 884		Canister ID 842	4
Flow Controller ID 301113	Flow Controller ID 301	068	Flow Controller ID 364637	_
Date/Time start 3 23 14 810	Date/Time start 3 23/16	810	Date/Time start 3/23/14 932	
Date/Time end 3 23/16 1547	Date/Time end 3 23 16	1547	Date/Time end 3 23/14 14 <sup>58</sup>	4
Gauge prior to start 0.0	Gauge prior to start 0	<u>.</u> Q	Gauge prior to start 0.0	4
Start pressure	Start pressure	<u>.¾                                    </u>	Start pressure 29.	4
End pressure -8.1	End pressure	.6	End pressure \( \frac{8.0}{} \)	-
Complete all that apply:	Complete all that apply:		Complete all that apply:	
Air temperature (°F) 70	Air temperature (°F) 7	$\alpha$	Air temperature (°F) GO°F	
PID/FID reading () and	PID/FID reading 792	dod	PID/FID reading Ovob	1
in, tubing used	in, tubing used 1/4;	in Pro	in. tubing used	1
Tubing purged?	Tubing purged?		Tubing purged? W/A	1
	Chamber bases and			1
	Chamber tracer gas concentration: 50°	Potte	Location: north of	
	Tracer gas concentration		Bldg. 800	
·	during purging:	oppm		
For indoor location:	For indoor location:		For outdoor location:	
Noticeable odor	Noticeable odor		Noticeable odor	_
Intake height 3 C.1	Floor slab depth ~ \( \( \)	5	Dintegrand to record (B) 15 C1 S at	1
above floor (in) 2 +1.	Floor slab depth	<u></u>	Distance to road (ft) 15 ft. Sou	1
type	below floor (in)	<u>,                                     </u>	building (degrees) 180°	
Room New Ourportis sha	Floor surface  type Conch	rete	Distance to closest building (ft) 10 FF	
		, i.e. \	Intake height above	1
Story/level <u>Jasement</u>	Room New Courpe	uters symp	ground level (in) 78	-
	Story/level Zeseme			_
Building Survey and Chemical Invent	ory Form Completed?		<del></del>	
Photographs Taken?				
Comments:			1	<b></b>
			The state of the s	
Analytical method required				
Laboratory used				



Project # G2577.6	HO Da	ie 3/23/16
Project Name Facility Vapo		Nector CE/TD
Structure Location	<u>Sa</u>	mple Locations
Storage Avea		threen cols Ta 2 2/3 & To 2 2/3
PID/FID meter ID		
Sample Duration (Intended)	Thrs	
		Circle Sample Type: Indoor Air
Indoor Air Sample	Sub-structure Sample	SS-DUP Ambient IA-DUP
Sample ID <u>860- 4- IA</u>	Sample ID 800-4-5	Sample ID
Canister ID 1179	Canister ID 824	Canater ID
Flow Controller ID 336719	Flow Controller ID 4/5,30	
Date/Time start 3 23 14 824	Date in Start 112 110	Date/Time start
Date/Time end 3 23 6 (424	Date/Time end 3 23 16	Date/Time end
Gauge prior to start 0.0	Gauge prior to start	Gauge prior to start
Start pressure29.2	Start pressure	Start pressure
End pressure	End pressure - 7.1	End pressure \
Complete all that apply:	Complete all that apply:	Complete all that apply:
-4.0	-	
Air temperature (°F) + C	Air temperature (°F) +O	Air temperature (%)
PID/FID reading Uppo	PID/FID reading 696 /	1 1 1 1 1
in. tubing used	in, tubing used 114 in	in. tubing used
Tubing purged?	Tubing purged?	Tubing purged?
1.	Chamber tracer gas	
	concentration: 50%	<del> </del>
	Tracer gas concentration during purging: (7.0)	
For indoor location:	For indoor location:	For outdoor location:
k l		
Noticeable odor	Noticeable odor	Noticeable odor
Intake height above floor (in)	Floor slab depth ~(g-7)	Distance to road (ft)
Floor surface	Intake depth	Direction to closest
type <u>Concrete</u>	below floor (in) ~8-9	building (degrees)
ROOM Storage Area	Floor surface type (market	Distance to closest \ \ building (ft)
3 0		Intake height above
Story/level Story/level	Room Storage ?	TVVA_ ground level (in)
-	Story/level Fastmen	
Building Survey and Chemical Inve	intory Form Completed?	4
Photographs Taken?		
Comments:		(
CONSTITUTE.	And the state of t	
,		
	L MANAGEMENT	MALE THE TOTAL CONTROL OF THE TOTAL CONTROL OT THE TOTAL CONTROL OF THE
Analytical method required		-,,
Laboratory used		



Project # 62577.0"	40	Date ·	3/23/16
Project Name Facility Van		Collector	CFITD
Structure Location		Sample Locati	ons .
col. T8213 Fork True	ck Maintenance		north of col. T82/3
PID/FID meter ID		3'6"	west of col. T82/3
Sample Duration (Intended)	thrs .		<u> </u>
		I i	Circle Sample Type; Indoor Air
Indoor Air Sample	Sub-structure Sam	<u>ple</u>	SS-DUP Ambient IA-DUP
Sample tD <u>800 - 5 - I.A</u>	Sample ID 800-5	<i>-s</i> s	Sample ID
Canister ID 502	Canister ID 884		Canister ID
Flow:Controller ID 399,398	Flow Controller ID 3010		Flow Controller ID
Date/Time start 3/23 16 842	Date/Time start 3 23 16	842	Date/Time start
Date/Time end 3/23/16 1554	Date/Time end 3/23/16	1554	Date/Time end
Gauge prior to start 0.0	Gauge prior to start 0.	0	Gauge prior to start
Start pressure	Start pressure		Start pressure \
End pressure9, 2	End pressure	.5	End pressure
Complete all that apply:	Complete all that apply:		Complete all that apply:
Air temperature (°F) 70	Air temperature (°F)	>	Air temperature (°F)
PID/FID reading O Anh	PID/FID reading 59(a	das	PID/FID reading
in, tubing used	in tubing used		in, tubing used
Tubing purged?	Tubing purged?		Tubing purged?
	Chambar tracer and		
	Chamber tracer gas concentration: 50%	He	\
THE PROPERTY OF THE PROPERTY O	Tracer gas concentration		
	during purging: Opr	m	\
For indoor location:	For indoor location:		For outdoor location:
Noticeable odor	Noticeable odor		Noticeable odor
Intake height above floor (in)	Floor stab depth 0		Distance to road (ft)
Floor surface	Intake depth		Direction to closest
type <u>concrete</u>	below floor (in) 12		building (degrees)
Room Fork Truck chance	Floor surface type Concr	ا ا مام	Distance to closes! bullding (ft)
- Paris Pr			Intake height above
Story/level Brosencet	Room For Vaivant	wer	ground level (in)
	Story/level Bosus	rent	
Building Survey and Chemical Inven	ntory Form Completed?		
Photographs Taken?	,		<u> </u>
Comments:			
· <u>····································</u>		······	
Analytical method required		<del> </del>	
Laboratory used			



Project # 62577.040		Date	3 23	5/16	
Project Name Facility Vapor	Assessment	Collector	CF	/1D	
Structure Location  N/S Hallway - Col. LO  PID/FID meter ID -  Sample Duration (Intended) - 8	hrs	Sample L 3' 9" 4' 10' (N	ocations West of a Smath of SHallw	? Cal. L9	
Indoor Air Sample Sample ID 800-G-TA Canister ID 890 Flow Controller ID 3380GF Date/Time start 3 23 16 740 Date/Time end 3 23 16 1522 Gauge prior to start Start pressure 29.2 End pressure 7.6	1	23/16 1522	Circle San Se-DUP Sample ID Canister II Flow Cont Date/Time Date/Time Gauge prid Start press	Ambient  D  roller ID  e start  e end  or to start	A-DUP
Complete all that apply:  Air temperature (°F) 70°  PID/FID reading 0 pp b in. tubing used 1	Complete all that a Air temperature (°F PID/FID reading in, tubing used Tubing purged? Chamber tracer ga concentration: Tracer gas concenturing purging: For indoor locati Noticeable odor Floor slab depth Intake depth below floor (in) Floor surface lype. Room Story/level	354 ppb 14 in 50% He.	Air temper PID/FID re in. tubing pu Tubing pu  For outde Noticeable Distance t building (c	por location:  a odor  to road (ft) to closest degrees) to closest t) ght above	
Building Survey and Chemical Inve Photographs Taken? Comments:	ntory Form Completed		4		
Analytical method required			<del>.</del>		



				ener.			
Project # 62577.0"	10	Date		3 23 16			
Project Name Facility Vapo	(As	Sissiment Collector		CF/ID			
Structure Location		Sample L	ocat	ions			
Col. Fa 5'/3 (E/W Hallway) E/W Hallway between							
PID/FID meter ID		rolf	51	- A A . I			
Sample Duration (Intended) 3	W.S						
			<u> </u>	Circle Sample Type: Indoor Air			
Indoor Air Sample		Sub-structure Sample	177	SS-DUP Ambient IA-DUP			
Sample ID 800-7-1A		Sample ID 800-7-S5		Sample ID			
Canister ID 886		Canister ID [180		Canicter ID			
Flow Controller ID 336714		Flow Controller ID 301144		Flow Controller ID			
Date/Time start 3 23 4 724		Date/Time start 3/23/16 72c	3 *** .	Date/Time start			
Date/Time end 3 23 16 1513		Date/Time end 3/23/16 1513		Date/Time end			
Gauge prior to start 0,0		Gauge prior to start 0.0		Gauge pror to start			
Start pressure29.2		Start pressure <u>-29.2</u>		Start pressure			
End pressure <u>-7.2</u>		End pressure		End pressule			
Complete all that apply:		Complete all that apply:		Complete all that apply:			
Air temperature (°F) 70		Air temperature (°F) 70		Air temperature (°F)			
		PID/FID reading 0.000		PID/FID reading			
PID/FID reading 6.0 ppb in, tubing used 1H in		in, tubing used		in, tubing used			
Tubing purged?	1.7-	Tubing purged?		Tubing purged?			
(ability pergod).				1			
		Chamber tracer gas concentration: 50% Hc		1			
		Tracer gas concentration					
	- 9	during purging: 0.0 ppm		1			
For indoor location:		For indoor location:		For outdoor location:			
Noticeable odor N		Noticeable odor \ \sum_	ui, ji	Noticeable odor			
Intake height		- 1A11	: "	7			
above floor (in)3. 2 \dagger. Floor:surface		Floor slab depth 0		Distance to road (ft)  Direction to closest			
type		below floor (in) 12		building (degrees)			
one Halladi		Floor surface type (Marcte)		Distance to closest  building (ft)			
Room Hawway		type <u>(Mare)</u>		Intake height above			
Story/level Coscwent		Room Hallway		ground level (in)			
		Story/level Specimens					
Building Survey and Chemical Inver	atory	Form Completed?					
Photographs Taken?		An parameter		<u></u>			
Comments:			,				
Analytical method required							



## Indoor Air Quality Building Survey

_	Date:	<u> 31</u>	231	11	P	
-	Collec	tor:	CF	11	LD	
3	Affiliat	ion:	O'Br	ien	& Gere	

Access Contact: Joanne Reinhold	Address: Neumann Waw					
Phone: (513) 638-2333	Buildina 800					
Best time to contact: Any	Tax ID: 0					
Owner Renter Other	Access Agreement Signed?:					
Date built 1942/43 Building type:						
Yrs. of residence Since construction Residential	School Industrial					
No. of occupants Commercial	Church Other					
Check all that apply:						
Ranch Raised Ranch	2-Family Apartments					
Cape Colonial	Duplex Condominium					
3-Family Mobile Home	Other (specify) Aviation storage, office, &					
Above grade building construction	manufacturing facility					
Wood frame Poured concrete	Stone					
Brick Concrete block	Other					
Foundation construction						
Fieldstone Solid top concrete block	Slab on grade					
Poured concrete Open top concrete block						
is the owner aware of any additions made to the original design of the structure? (please specify)						
Is the owner aware of any additions made to the original des	ign of the structure? (please specify)					
is the owner aware of any additions made to the original des	ign of the structure? (please specify)					
. †	ign of the structure? (please specify)					
. †	ign of the structure? (please specify)					
None						
Utilities	ign of the structure? (please specify)  Hot water healer type:  Spring Gas Electric					
Utilities  Sewer: Public	Hot water healer type:					
Utilities  Sewer: Water: Public X	Hot water healer type: Spring Gas Electric					
Utilities  Sewer: Public	Hot water healer type: Spring Gas Electric					
Vitilities  Sewer: Public	Hot water healer type: Spring Gas Electric					
Utilities  Sewer: Water: Public X Public Y Private Other Other  Heating, ventilation, and air conditioning systems  Primary heat type: Fuel type (heat): Natural gas	Hot water healer type:  Spring Gas Electric Well Oil Other					
Utilities  Sewer: Water: Public X Public X Private Other Other  Heating, ventilation, and air conditioning systems  Primary heat type: Fuel type (heat): Natural gas Fuel oil	Spring Gas Electric Well Oil Other  Secondary heat type:					
Utilities  Sewer: Water: Public Private Other Other  Heating, ventilation, and air conditioning systems  Primary heat type: Fuel type (heat): Natural gas Fuel oil Steam radiator Electric	Spring Gas Electric Well Oil Other  Secondary heat type: Kerosene Wood stove Electric					
Utilities  Sewer: Water: Public Private Other Other  Heating, ventilation, and air conditioning systems  Primary heat type: Fuel type (heat): Natural gas Hot water Steam radiator Electric Wood	Spring Gas Electric Well Oil Other  Secondary heat type: Kerosene Wood stove Electric Propane					
Utilities  Sewer: Water: Public Private Other Other  Heating, ventilation, and air conditioning systems  Primary heat type: Fuel type (heat): Natural gas Fuel oil Steam radiator Electric	Spring Gas Electric Well Oil Other  Secondary heat type: Kerosene Wood stove Electric					
Utilities  Sewer: Water: Public Private Other Other  Heating, ventilation, and air conditioning systems  Primary heat type: Fuel type (heat): Natural gas Hot water Steam radiator Electric Wood	Spring Gas Electric Well Oil Other  Secondary heat type: Kerosene Wood stove Electric Propane					
Utilities    Sewer: Water: Public   X   Public   X     Private   Other   Other	Spring Gas Electric Well Oil Other  Secondary heat type: Kerosene Wood stove Electric Propane Other					
Utilities    Sewer: Water: Public Private Other Other Other   Public Private Other   Private Other   Public Private Other   Private Other   Private Other   Primary heat type: Fuel type (heat): Natural gas Hot water   Public Private Other   Public Priva	Spring Gas Electric Well Oil Other  Secondary heat type: Kerosene Wood stove Electric Propane Other  Air conditioning: Window units Furnance unit					
Utilities    Sewer: Water: Public   Public   X     Private Other Other   Other	Spring Gas Electric Well Oil Other  Secondary heat type: Kerosene Wood stove Electric Propane Other  Air conditioning: Window units					



## Indoor Air Quality Building Survey

Date:	
Collector:	
Affiliation: O'Brien & Gere	
, , , , , , , , , , , , , , , , , , ,	

		Building Su	rvey	Affiliation: O'B	nen & Gere	<del></del>
Basement type						
None :	Half Slab on grade		rawispace I crawispace		Othe <u>r</u>	
If slab on grade, is the	re a garage with occu	pied space above?	N/A			<del></del>
Basement depth below	Rear Rear	Side	· · · · · · · · · · · · · · · · · · ·	Side	a 2	:
Basement characterist	ics (Westernd)					
General: No. of rooms Bathroom Basement use	Ea Co Til Ca	oor: rih ncrete X e rrpet her	Walls: Firitished Unfinished Painted Sheetrock Other Main	aly concrete	Paneling Tile Insulated Uninsulated	
Check if present: Fireplace Sump pump Floor drains Interior walls	X (surroi)	Elevator Ash cleanout Water damage Jacuzzi/hot tub	× 1.>5c	French di Floor crai Wall crac Other Me pipe/cei	rein X cks X iks X	inone significant, ~1"  Some, none  significant
	nt have a moisture pr		No.			
	nt ever flood? (specif	y frequency)	No only	durina 2	ool event	
	he sump or drains?		No access	>		
	of possible mold?	m installad2:	No			
	nt have a radon syste	nishings (carpets, rugs	1	or funitura) or re	amodeling	
	roofing, or floor stripp		No	, or tarmare) or re	emboenig	
Charles of water and age	in the case of the case				**************************************	<del> </del>
Chemical usage, expos	· ·					
Identify occupant Painting Stained glass Jewelry making	noobles:	Electronics Woodworking Furniture refinishing	X			onufacturina,
Where in the stru	cture are these hobbie	es conducted?	Southea	st conver	Far & Third	k Maintenance, Storage
Does the occupar	nts' job require chemic	al exposure?				_ 3,0.00
If so, where are th	ne occupants clothes	cleaned?	offsite			·
Has the structure	been furnigated in the	last year?	Ves.	roach issues	5	
If so, is fumigation	on regularly performed	l? (how often)				
,	quently applied to law	n or garden?	<u> </u>			
If so, are they slo	ored on the property?		<u>AIN</u>			<del></del>
Are dry-cleaned o	lothes kept in vicinity	of sampling?	No			
Is there smoking i			No			
	ducts been used receing been done recently		No o	ware of anu	<b>Y</b>	



## indoor Air Quality Building Survey

Date;
Collector:
Affiliation: O'Brien & Gere

1.		sement, or garage if structure is slab on grade (	include fuels, solvents, cleaners, etc.)
ample Loca	AioM Brand	Product	Amount stored
800-1	<u>None</u>		
8∞-2	None		
800-3	Comet	Disinfectiva Bathroom	I spray bottle
500-H	None (some metal dust)		***************************************
500-5	Fork Truck Batteries, Hurraulic Motor	UCON Hydrolube 732	Unknown
Z00-6	None None		
800-7	None		
	MACHINE BOARD AND AND AND AND AND AND AND AND AND AN	THE PERSON AND ADDRESS OF THE PERSON A	
	<u></u>		
		at the structural features of this building, the hab indoor air that may be of importance in facilitating	
	***************************************		
-			
	Sampling Locations (sketch plan views) Basement	<u>First Floor</u>	Outdoor (indicate wind direction)
			•



## **Building Survey - Chemical Inventory Attachment**

Name:	Address:	
Identify chemicals stored in the basolvents, cleaners, polyresins, etc.	sement (or 1st floor living space/garage if structure is . Use separate inventory sheet for each room/area sur	slab on grade). Include fue veyed
Brand/Product	Volatile ingredients/CAS Nos.	Amount stored
<u> </u>		
		***************************************
<u> </u>		
		William .
- Ambaly		



Project # 62577.04	<u>ー</u>	Date	10/12/16
Project Name Facility Vapar	A58	CSSWERCE Collecto	or ct/to
Structure Location	, (	Samule	Locations
Outhous			nutu side of Blda, 800,
PID/FID meter ID			(1) est lower and
	ho	· <del>· · · · · · · · · · · · · · · · · · </del>	7 33365
	E E E		The state of the s
Indoor Air Sample		Sub-structure Sample	Circle Sample Type: Indoor Air SS-DUP Ambient IA-DUP
Sample ID		Sample ID	Sample ID Sample ID
Canister ID		Canister ID	Canister ID 1421)
Flow Controlle/VD		Flow Controller ID	Flow Controller ID 930842
Date/Time start	1 (1) 1 (1) 1 (1)	Date/Time start	Date/Time start 1012/16 834
Date/Time end	15 A	Date/Time end	Date/Time and 10/12/16 16°5
Gauge prior to start		Gauge prior to start	Gauge prior to start ()(()
Start pressure	114. 14.50	Start pressure	Start pressure $-28.7$
End pressure		End pressure	End pressure - )   . D
	2466 2465		
Complete all that apply:		Complete all that apply:	Complete all that apply:
Air temperature (°F)		Air temperature (°F)	Air temperature (°F)
PID/FID reading		PID/FID reading	PID/FID reading
in, tubing used		in, tubing used	in. tubing used A
Tubing purged?		Tubing purged?	Tubing purged?
		Chamber tracer gas	*** *****
		concentration:	
		Tracer gas concentration	
For the decoration of the second		during purging:	
For indoor location:		For indeor location:	For outdoor location:
Noticeable odor		Noticeable of pr	Noticeable odor
Intake height above floor (in)		Floor siab depth	Distance to road (ft) 50.4.
Floor surface		Intake depth	Direction to closest
type		below floor (in)	building (degrees)
Room		Floor surface type	Distance to closest building (ft)
P		190	lataka hainht ahous
Story/level		Room	ground level (in) 36
MACHINANOVANOVANOVA		Story/ievel	- [ (*) [ (*
Building Survey and Chemical Inver	nlory	Form Completed?	<u> </u>
Photographs Taken?			14
Comments:			1
			**************************************
Analytical method required			



Project # 62517; 046	ર	Date		iohall6
Project Name Facility Vacor	1	SCOWERT Collector		CF/TD
Structure Location	ξ	Sample t	ocat	ions
Adoors		Gallina	<u>المامان.</u> حديم	North of Bldg 800
PID/FID meter ID			<u> </u>	700 100 000
	h			13.5
	V \ \ \		1	Ta
Indoor Air Sample		Sub-structure Sample		Circle Sample Type: Indoor Air SS-DUP Ambient IA-DUP
Sample ID		Sample ID		Sample ID 80-AA-Q
Canister ID	71.	Canister ID		Canister ID 829
Flow Controller 1D	Para	Flow Controller ID		Flow Controller ID 415276
Date/Time start		Date/Time start		Date/Time start 10/12/16 8 37
Date/Time end		Date/Time and		Date/Time end 10/12/16 611
Gauge prior to start		Gauge prior to start		Gauge prior to start
Start pressure		Start pressure		Start pressure <u>~29.5</u>
End pressure		End pressure		End pressure
Complete all that apply:		Complete all that apply:		Complete all that apply:
Air temperature (°F)	Si.	Air temperature (°F)		Air temperature (°F) 60°F
PID/FID reading		PID/FID reading	Andrew Antiqu	PID/FID reading
in, tubing used	1	in, tubing used		in, tubing used N/A
Tubing purged?	na, i	hubing purged?		Tubing purged? NA
		Chamber tracer gas		7
		concentration:		
		Tracer gas concentration during purging:		
For indoor location:		For indoor location:		For outdoor location:
Noticeable odor		Noticeable odo	j. 148.	Noticeable odor
Intake height above floor (in)		Floor slab depth	5,7 t	Distance to read (ft)
Floor surface		Intake depth		Distance to road (ft)
type		below floor (in)		building (degrees) (%0°
Dogg		Floor surface		Distance to closest
Room		type		building (ft) 0+1
Story/level		Room		ground level (in)
		Story/level		
Building Survey and Chemical Inven	tory	Form Completed?	V	
Photographs Taken?	•	· · · · · · · · · · · · · · · · · · ·		1
Comments:		-		
Comments.		······································		
				The state of the s
		ULL LE LEU HEUR HER HER HER HER HER HER HER HER HER HE		——————————————————————————————————————
Analytical method required				
Laboratory used				



Projeci#	62577.048	ર		Date	. *****	10/12/16
Project Name	Facility Vao	ex 1	58CSS ment	Collector		CF/rD
Structure Loc	0.1		,	Sample L	očal	ions
7.1	W Hallwar	,				en cols P51/30 Pa51
PID/FID meter	A		*****	- 5001	000	
Sample Duratio	on (Intended)	3h	<u>v3</u>			
						Circle Sample Type: Indoor Air
Indoor	Air Sample		Sub-structure San	nple		SS-DUP Ambient IA-DUP
Sample ID	800-1-1A	in end Little de	Sample ID 800-1	<u>-Ss_</u>		Sample ID
Canister ID	508		Canister ID 890	<i>r</i> /		Canister ID
Flow Controller II	, "		<u> </u>	628		Flow Controller ID
Date/Time start	10/12/16 0700		Date/Time start [0] 12   16	0700	<b>y</b>	Date/Time start
Date/Time end	10/12/16 150	ì	Date/Time end (0) 12 (1)	0 1500	GN .	Date/Time end
Gauge prior to sta	art 0.0 19		Gauge prior to start 🕜 ,	0 175		Gauge prior to start
Start pressure	-29.3	4.27	Start pressure29.(	9	114	Start pressure
End pressure			End pressure	2		End pressure
Complete at that	арріу:		Complete all that apply:		77.271	Complete all that apply:
Air temperature (	°F) 70		Air temperature (°F)	0		Air temperature (°F)
PID/FID reading	$\Omega$ Mb		PID/FID reading 교교환3		÷,	PID/FID reading
in, tubing used	iltin		in, tubing used 1/4	10.		in, tubing used
Tubing purged?	M		Tubing purged?			Tubing purged 1
, , , , , , , , , , , , , , , , , , , ,	1		1			
,	`		Chamber tracer gas concentration: 50%	He	1951 1851	
			Tracer gas concentration			
			during purging:			\
For indoor loca	tion:		For indoor location:			For outdoor location:
Noticeable odor	N		Noticeable odor			Noticeable odor
intake helght	li Oe	-	الماد		200	
above floor (in)			Floor slab depth(O''			Distance to road (ft)
Floor surface type	concrete		Intake depth   19   19   19   19   19   19   19   1	L .		Direction to closest building (degrees)
32-	11 0	1 21	Floor surface		11 14 1 1 2 1 3	Distance to closest
Room	tanway		type <u>CANCVE</u>	<del>ye</del>		building (ft)
Story/level	Pasement	21 T	Room Halle	auz		intake height above ground level (in)
	<u> </u>		Story/level Past	run A		
					17	
	y and Chemical Inver	ntory	Form Completed?		<u>4                                    </u>	V.
Photographs T	aken?	-				<del>\</del>
Comments:						ſ
			- Little and an annual and an annual and an annual an			***************************************
6	al					
Analytical method	n rednitea					



		<del></del>		
Project# 62577-042		Date		10/12/10
Project Name Facility Vapor	As	sessment Collector		CFITO
Structure Location		Sample L		ons
Tool Design Room		14' 6	) <sup>it</sup>	North of rol Lb2
PID/FID meter ID	_	h	' ló	" West of col Lba
Sample Duration (Intended)	h	<u> </u>		
				Circle Sample Type: Indoor Air
Indoor Air Sample		Sub-structure Sample		SS-DUP Ambient IA-DUP
Sample ID 800-0-IA		Sample ID <u>800-2-5S</u>		Sample ID
Canister ID 515		Canister ID 1233		Canlster ID
Flow Controller ID 958/15		Flow Controller ID 958069		Flow Controller ID
Date/Time start 10/12/16 7-12		Date/Time start 101210 7		Date/Time start
Date/Time end 10/12/16 1506	40%	Date/Time end 10/12/16 1504		Date/Time end
Gauge prior to start 0.0		Gauge prior to start 0.0		Gauge prior to start
Start pressure - 29.2		Start pressure 29,5		Start pressure
End pressure _~4.6		End pressure		End pressure
Complete all that apply:		Complete all that apply:		Complete all that apply:
Air temperature (°F) 70"		Air temperature (°F) 70°		Air temperature (°F)
PID/FID reading 0 000		PID/FID reading Opolo		PID/FID reading
in, tubing used 1 H M		in, tubing used THIN		in. tubing used
Tubing purged?		Tubing purged?		Tubing purged?
		Chamber tracer gas		\
		concentration: 50%	avga.	\
	11.00	Tracer gas concentration		\
		during purging:		\
For indoor location:		For indoor location:		For outdoor location:
Noticeable odor	Agg.	Noticeable odor	ŢĠ.	Noticeable odor
Intake height		Floor slab depth		Distance to road (ft)
above floor (in)		Intake depth		Direction to closest
type Conset concrete	. 1.	below floor (in)		building (degrees)
		Floor surface		Distance to closest
Room Tool Desym Ken	**	type <u>Critical Concret</u>	ز	building (ft) Intake height above
Story/level Rasement		Room Tow Design Room	~	ground level (in)
		Story/level Rasement		
Building Survey and Chemical Inver	aton.	Form Completed?		
Photographs Taken?	цогу	Form completed:	M	
Priotographis Taxon:		,	7	<del></del>
Comments:				
Analytical method required				
Laboratory used				



Project # 62577-042		Date  0 12 16						
Project Name Facility Union	Assessment	Collector CF/TD						
Structure Location		Sample Locations						
Alear consenter's sho	n <b>p</b>	Octiveen Col. U5 &V	543					
PID/FID meter ID								
Sample Duration (Intended) 8 WS								
		Circle Sample Type: Ind	oor Air					
Indoor Air Sample	Sub-structure Sam	SS DUP Ambient	IA-DUP					
Sample ID SCO-3-I-A	Sample (D <u>800-3</u>	SS Sample ID						
Canister ID 1900	Canister ID S48	Canister ID						
Flow Controller ID 466903	11 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1	894840 Flow Controller ID						
Date/Time start 0316 730	Date/Time start 10/12/10	736 Date/Time start						
Date/Time end 10/12/16 15 36	Date/Time end 10/10/10	Date/Time end						
Gauge prior to start OO	Gauge prior to start 0	Gauge prior to start						
Start pressure -28-2	Start pressure 29.5	Start pressure						
End pressure (10) 12-50-2	3 End pressure	End pressure \						
Complete all that apply:	Complete all that apply:	Complete all thal apply:						
Air temperature (°F)	Air temperature (°F) 7-C	Air temperature (°F)						
PID/FID reading \\ \( \frac{\gamma}{2}  \text{AD} \)	PID/FID reading 1756	DAY PID/FID reading						
in. tubing used	in tubing used	in, tubing used						
Tubing purged?	Tubing purged?	Tubing purged?						
	Chambar transaction of							
	concentration:	He s						
	Tracer gas concentration	1.4	(					
	during purging: 186	m made	\					
For indoor location:	For indoor location:	For ouldoor location:	\					
Noticeable odor	Noticeable odor V	Noticeable odor	\					
Intake height 7 0	Floor slab denth							
above floor (in)		Distance to road (ft)	-					
type Concrete	Intake depth below floor (in)	Direction to closest building (degrees)						
ROOM NOW CANDING SANG	Floor surface type CMC/C	Distance to closest building (ft)						
		Intake height above						
Story/level WS/MWX		ground level (in)						
	Story/level Foolund							
Building Survey and Chemical Invent	tory Form Completed?		-					
Photographs Taken?		***************************************						
Comments:								
AND								
Analytical method required								



Project # 62577.042			Date		10/12/16				
Project Name Facility Vapo	· Facility Vapor Assessment		Collector		CFITO				
Structure Location	, į	Sample L	Sample Locations						
Storage Area			brothile	between cols. Tas 9/3 / Th 22/3					
PID/FID meter ID	<u> </u>	<del></del>	<del></del>						
Sample Duration (Intended) 8 1/2/5									
	1	<del></del>							
Indoor Air Sample		Sub-structu	re Sample		Circle Sample Type: Indoor Air  SS-DUP Ambient IA-DUP				
Sample ID 800-4-IA		Sample ID 80	00-4-5S		Sample ID				
Canister ID 328		Canister ID	1038		Canjster ID				
Flow Controller ID 2393/H		Flow Controller ID	958118		Flow Controller ID				
Date/Time start 10 12 16 Tole		Date/Time start (o)	112116 726		Date/Ijme start:				
Date/Time end 0/3/10/15/1		Date/Time end 10	Mally 1516		Date/Time end				
Gauge prior to start 0.0	1	Gauge prior to start	0.0		Gauge prior to start				
Start pressure -29.6	9, 3		29.6		Start pressure				
End pressure -HD	1	End pressure	-7.1	garage a Julyan	End pressure				
	24.0								
Complete all that apply:	3.0	Complete all that appl	ily:		Complete all that apply:				
Air temperature (°F)		Air temperature (°F)	70		Air temperature (°F)				
PID/FID reading 53 000		PID/FID reading	Floob		PID/FID reading				
in, tubing used Thin		in, tubing used	M.W	ur Video	in. tubing used				
Tubing purged?		Tubing purged?			Tubing purged?				
		Chambar tracar and	T (						
		Chamber tracer gas concentration:	50% He		\ \				
		Tracer gas concentral	tion		1				
	1	during purging:	Mayo		\				
For indoor location:		For indoor location:	<u>:</u>		For outdoor location:				
Noticeable odor		Noticeable odor	N		Noticeable odor				
Intake height		me /	~[ -]I		Distance to read (#1)				
above floor (in)	<b>1</b> : :	Floor slab depth	· · · · · · · · · · · · · · · · · · ·		Distance to road (ft) Direction to closest				
Floor surface hype CMO/EtC	* * 1	below floor (in)	~8-9"		building (degrees)				
Change I	1 1	Floor surface	~. a C + a (r~k)		Distance to closest				
Room STOTAGE AND		type <u>C</u>	on Civete		building (ft)				
Story/level Programment		Room 🦃	torage Area	<b>.</b>	ground level (in)				
	-	Story/level 2	agement						
	1 11 12	Tana Camalalad?							
Building Survey and Chemical Inve.	ruory i	-om compeleo?	-4	4					
Photographs Taken?				<u> </u>	<u> </u>				
Comments:									
					Y				
Analytical method required									
Laboratory used	<u> </u>								



# Multiple Vapor Intrusion Sampling Form

Project # 62577.042	<u>.</u>	Date 10/12/16
Project Name Facility Vapor	755essweit	Collector CF/TD
Structure Location ()	Summer	Sample Locations
	ck.Maintenance	
PID/FID meter ID	ord Marifordollo	12'10' north of al. T82/3 3'6" West of al. T82/3
Sample Duration (Intended)		
		Circle Sample Type: Indoor Air
Indoor Air Sample	Sub-structure San	144-A
Sample ID _ 30-5-1A	Sample ID 80-5-5	SS Sample ID
Canister ID 1224 504	Canister ID 880	Canister ID
Flow Controller ID 958034	Flow Controller ID 850	487 Flow Controller ID
Date/Time start (c) 216 8/5 G	Date/Time start (0)216	Lifelial
Date/Time end to 13/16 15/16	Date/Time end (0)12/10	Date/Time end
Gauge prior to start <u>0 0 け</u>	Gauge prior to start 0	Gauge prior to start
Start pressure 27 6 - 28.	Start pressure -29.	
End pressureH, %	End pressure 9 ~ 4.	8 -2.3 End pressure
Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F) 70	Air temperature (°F)	Air temperature(°F)
PID/FID reading 95 000	PID/FID reading 1018	PID/FID reading
in, tubing used	in, tubing used VH iv	in. tabing used
Tubing purged?	Tubing purged?	Tubing purged?
	Chamber tracer gas	
	concentration: 50%	lotte \
	Tracer gas concentration	
		<del>M</del>
For indoor location:	For indoor location:	For outdoor location
Noticeable odor	Noticeable odor	Noticeable odor
Intake height above floor (in) 3,44.	Floor slab depth (()	Distance to road (ff)
Floor surface	1 1	
type Concrete	Intake depth below floor (in)	building (degrees)
Room For Lyuden yold	Floor surface type <u>CONC</u>	Distance to closest building (ft)
Story/level Pasement	Room Fork Maint	intake height above
<u></u>	Story/level	
Building Survey and Chemical Inver	ntory Form Completed?	The second secon
Photographs Taken?	mos y i with somplesous	<del></del>
Comments:		
		1934.49.49.4.
Analytical method required		
Laboratory used		



# Multiple Vapor Intrusion Sampling Form

Project # 62577.043	2	Date		10/12/16
Project Name Facility Vap	or :	5585ment Collecte	r	CFITO
Structure Location  N S Hallwelly - col. L		Sample 3	- 11	tions West of all L9
PID/FID meter ID U		<u> 4'l</u>	01	south of cel. L9
Sample Duration (Intended)	hrs	<u> </u>	N	S Hallway)
Indoor Air Sample		Sub-structure Sample	15.5	Circle Sample Type: Indoor Air SS-DUP Ambient IA-DUP
Sample ID 800-C-IA		Sample ID <u>多の・ムーSS</u>		Sample ID
Canister ID 1360	1.5	Canister ID 820		Carlister ID
Flow Controller ID 248253		Flow Controller ID 84849C		Flow Controller ID
Date/Time start 10/12/16 643		Date/Time start 10/12/16 643	4	Date/Time start
Date/Time end 10/12/16 (え3)		Date/Time end 10/12/16 14-13		Date/Time end
Gauge prior to start		Gauge prior to start 0.0		Gauge prior to start
Start pressure <u>-29.0</u>		Start pressure <u>-29.5</u>	_	Start pressure
End pressure		End pressure		End pressure
Complete all that apply:		Complete all that apply:		Complete all that apply:
Air temperature (°F) 10°		Air temperature (°F) 70°		Air temperature (°F)
PID/FID reading 75 ppb		PID/FID reading 145 cmb		PID/FID reading
in tubing used 14 in		in, tubing used Viria	1	in. tubing used
Tubing purged?		Tubing purged?	1	Tubing purged?
-1				
		Chamber tracer gas concentration: 50% Hy		
		Tracer gas concentration	1	
en in en		during purging: 100 00 m		1
For indoor location:	Tegan II Selection	For indoor location:		For outdoor location:
Noticeable odor		Noticeable odor N		Noticeable odor
Intake height 750L				
above floor (in)		Floor slab depth <u>S</u>		Distance to road (ft)
Floor surface type (MUNE)		Intake depth below floor (in) 10		Direction to closest building (degrees)
		Floor surface		Distance to closest
Room Itallian		type <u>CMCNet C</u>		building (ft)
Story/level Basement		Room Hallway		ground level (in)
		Storyllevel Basement		
Building Survey and Chemical Inven	tory	Form Completed?	У	
Photographs Taken?	•	·		<u> </u>
Comments:				1
				1 22 1
Arralytical method required	70-	5	-	



# Multiple Vapor Intrusion Sampling Form

Project# 60577.042		Date		10/12/16
Project Name Facility Valor	(A	Stessment Collect	or	CF/TO
Structure Location ) Stu	min	✓ Sample	Locati	ons
Cal. Fa 51/3 (E/W Hall	ini	*	- 4	way blu al F5/3
PID/FID meter ID	N MOU	<del>}</del>		Fa 502
Sample Duration (Intended)	W	<u></u>		· · · · · · · · · · · · · · · · · · ·
	T			Gircle Sample Type: Indoor Air
Indoor Air Sample		Sub-structure Sample	#15°	SS-DUP Ambient IA-DUP
Sample ID 800-7-1A		Sample ID 800-7-55	700	Sample ID
Canister ID 1228		Canister ID 956		Canister ID
Flow Controller ID 848497		Flow Controller ID 3/6950		Flow Controller ID
Date/Time start 10112116 634		Date/Time start 10/12/16 632		Date Time start
Date/Time end  0 12 16 13 <sup>32</sup>		Date/Time end 10/18/16/14/32		Date/Time end
Gauge prior to start 0.0		Gauge prior to start		Gauge prior to start
Start pressure - 24.5 - 28.	6	Start pressure -29,5		Start pressure
End pressure -2.0		End pressure12,9		End pressure
Complete all that engine		Complete of the analy		Complete of that explic
Complete all that apply:		Complete all that apply:	1 1 1	Complete aff that apply:
Air temperature (°F) 70		Air temperature (°F) 70		Air temperature (°F)
PID/FID reading		PID/FID reading 30 pp0	_	PID/FID reading
in, tubling used 1 H iv.		in, tubing used VH(V)	4	in, tubing used
Tubing purged?		Tubing purged?	-	Tubing purged?
\		Chamber tracer gas		. \
		concentration: 50 10	-	\
		Tracer gas concentration		\
For indoor location:		during purging: ON MY For indoor location:	1	For outdoor location:
		or moder tocation:		TO Odubor location.
Noticeable odor VUML		Noticeable odor	-	Noticeable odor
Intake height above floor (in) 3 A.		Floor slab depth (1)		Distance to road (ft)
Floor surface		Intake depth		Direction to closest
type <u>(pv)(vex e</u>		below floor (in)		building (degrees)
Room Hallway		type <u>Concrete</u>		Distance to closest
	l ii.	1/4//		Intake height above
Story/level Zasement		Room Hallway	-	ground level (in)
	<u> </u>	Story/level Basersum	-	
Building Survey and Chemical Inver	ntory	Form Completed?	, 1	<u> </u>
Photographs Taken?			V	
Comments:				
A a b. Abo of abb		15		
Analytical method required	1 L	1-15	_	

Appendix B

Photographic Log of Sampling Locations

# APPENDIX B - PHOTOGRAPHIC LOG OF SAMPLING LOCATIONS

GE Aviation - Evendale, Ohio (Building 800)

GE - OneEHS

**CLIENT NAME:** 

SITE LOCATION:

PROJECT NO.

PHOTO NO.

DATE:

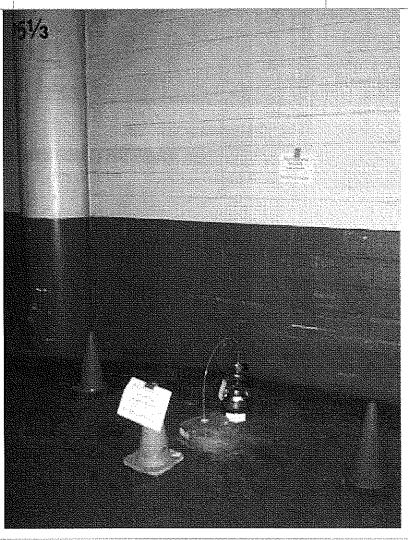
3/23/2016

612|62577

.

DESCRIPTION

Sampling location SS-800-1 near Column P5 1/3. Photo faces north.



GE - OneEHS

SITE LOCATION:

PROJECT NO.

GE Aviation – Evendale, Ohio (Building 800)

612|62577

РНОТО NO.

2

3/23/2016

DATE:

### **DESCRIPTION**

Sampling location SS-800-2 near Column Lb 2. Photo faces north.



GE - OneEHS

SITE LOCATION:

PROJECT NO.

GE Aviation - Evendale, Ohio (Building 800)

612|62577

PHOTO NO.

DATE:

3

3/23/2016

#### **DESCRIPTION**

Sampling location SS-800-3 near Column V5 1/3. Photo faces east.



GE - OneEHS

SITE LOCATION:

GE Aviation - Evendale, Ohio (Building 800)

PROJECT NO.

612|62577

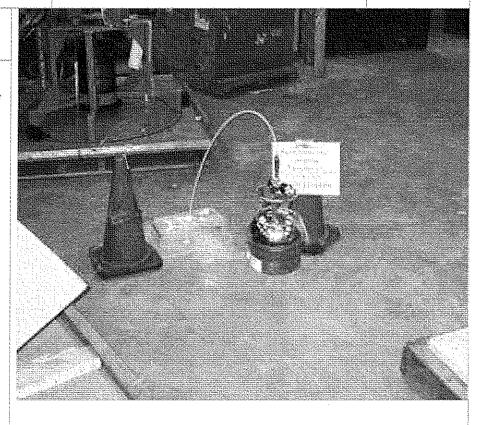
PHOTO NO. DATE:

4

3/23/2016

### **DESCRIPTION**

Sampling location SS-800-4 near Column TB 2 2/3. Photo faces northeast.



GE - OneEHS

SITE LOCATION:

GE Aviation - Evendale, Ohio (Building 800)

PROJECT NO.

612|62577

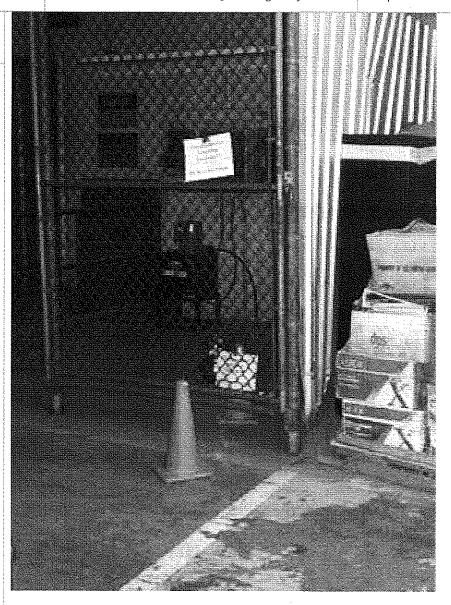
PHOTO NO. DATE:

5

3/23/2016

### DESCRIPTION

Sampling location SS-800-5 near Column TB 2 2/3. Photo faces east.



GE - OneEHS

SITE LOCATION:

GE Aviation - Evendale, Ohio (Building 800)

PROJECT NO.

612|62577

PHOTO NO.

6

3/23/2016

DATE:

### **DESCRIPTION**

Sampling location SS-800-6 near Column L9 1/3. Photo faces east.



SITE LOCATION:

PROJECT NO.

GE Aviation - Evendale, Ohio (Building 800) GE - OneEHS

612|62577

PHOTO NO.

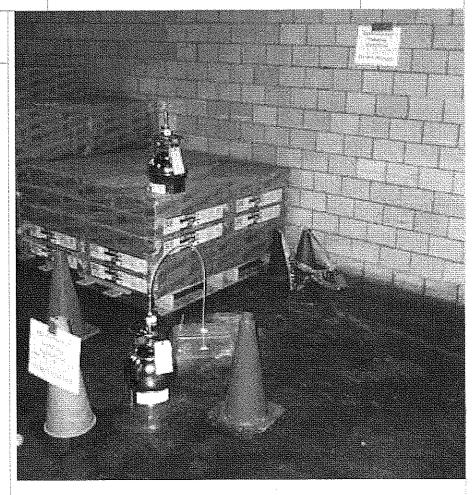
DATE:

7

3/23/2016

# **DESCRIPTION**

Sampling location SS-800-7 near Column F5 1/3. Photo faces north.



GE - OneEHS

SITE LOCATION:

GE Aviation - Evendale, Ohio (Building 800)

PROJECT NO.

612 62577

PHOTO NO. DATE:

8

3/23/2016

# DESCRIPTION

Ambient outdoor air sampling location 800-AA-1 along the south side of Building 800. Photo faces north.



GE - OneEHS

### SITE LOCATION:

GE Aviation - Evendale, Ohio (Building 800)

### PROJECT NO.

612|62577

# PHOTO NO.

DATE:

3/23/2016

### **DESCRIPTION**

Ambient outdoor air sampling location 800-AA-2 along the north side of Building 800. Photo faces southwest.



# Appendix C Laboratory Analytical Reports



2425 New Holland Pike, Lancaster, PA 17601 - 717-656-2300 - Fax; 717-656-2681 - www.LancasterLabs.com

#### ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 O'Brien & Gere, Inc. P.O. Box 4873 Syracuse NY 13221-4873

Report Date: April 11, 2016

Project: GE - Evandale

Submittal Date: 03/29/2016 Group Number: 1645083 PO Number: 11600269 State of Sample Origin: OH

Client Sample Description	Lancaster Labs (LL) #
800-1-IA Air	8307857
800-AA-1 Air	8307858
800-2-IA Air	8307859
800-5-IA Air	8307860
800-3-IA Air	8307861
800-AA-2 Air	8307862
800-7-IA Air	8307863
800-6-IA Air	8307864
800-4-IA Air	8307865
800-6-SS Air	8307866
800-3-SS Air	8307867
800-2-SS Air	8307868
800-4-SS Air	8307869
800-5-SS Air	8307870
800-1-SS Air	8307871
800-7-SS Air	8307872

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <a href="http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/">http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</a>.

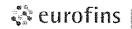
Electronic Copy To	O'Brien & Gere, Inc.	Attn: Matt Traister
Electronic Copy To	O'Brien & Gere, Inc.	Attn: Chase Forman

2425 New Holland Pike, Lancaster, PA 17601 + 717-656-2300 + Fax: 717-656-2681 + www.LancasterLabs.com

Respectfully Submitted,

Megan A. Moeller Senior Specialist

(717) 556-7261



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-1-IA Air

SUMMA# 866

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307857

LL Group # 1645083

Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 08:56

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

through 03/23/2016 13:00

Submitted: 03/29/2016 13:15 Reported: 04/11/2016 22:03

CAT	Analysis Name	CAS Number		-		,	474 PM
No.	mary or o mane	CVD MUMBET	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-1	L5 using SIM	ppb (v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.150	0.0200	0.941	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0587	0.0200	0.238	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.0814	0.0200	0.329	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.0789	0.0200	0.313	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	0.0620	0.0200	0.246	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.0958	0.0200	0.380	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0710	0.0200	0.482	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.429	0.0200	2.34	0.109	1
07345	Trichloroethene	79-01-6	0.259	0.0200	1.39	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using	1	E1609930AA	04/08/2016 23:16	Jacob E Bailey	1



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-AA-1 Air

SUMMA# 1216

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307858

LL Group # 1645083

Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 09:20

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

through 03/23/2016 16:53 Submitted: 03/29/2016 13:15

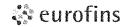
Reported: 04/11/2016 22:03

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-	L5 using SIM	ppb (v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.164	0.0200	1.03	0.126	1
07345	Chloroethane	75-00-3	0.133	0.0200	0.351	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0633	0.0200	0.256	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	0.0869	0.0200	0.345	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0200	N.D.	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0960	0.0200	0.651	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.129	0.0200	0.705	0.109	1
07345	Trichloroethene	79-01-6	0.137	0.0200	0.736	0.107	1
07345	Vinvl Chloride	75-01-4	0.0846	0.0200	0.216	0.0511	1

MDL = Method Detection Limit

#### General Sample Comments

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
	TO-15 by SIM	EPA TO-15 using	1	E1609930AA	04/09/2016 00:13	Jacob E Bailey	1



# **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-2-IA Air

SUMMA# 1336

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307859

LL Group # 1645083

Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 09:10

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

through 03/23/2016 16:37 Submitted: 03/29/2016 13:15

Reported: 04/11/2016 22:03

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-1	5 using SIM	ppb (v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.135	0.0200	0.847	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1.
07345	1,1-Dichloroethane	75-34-3	0.0240 J	0.0200	0.0971 J	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.0610	0.0200	0.247	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.0262 J	0.0200	0.104 J	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.0247 J	0.0200	0.0980 J	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0796	0.0200	0.540	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.155	0.0200	0.843	0.109	1
07345	Trichloroethene	79-01-6	0.0862	0.0200	0.463	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1.

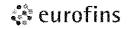
MDL = Method Detection Limit

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
	TO-15 by SIM	EPA TO-15 using	1	E1609930AA	04/09/2016 01:10	Jacob E Bailey	1



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-5-IA Air

SUMMA# 502

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307860

LL Group # 1645083

Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 08:42

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

through 03/23/2016 15:56

Syracuse NY 13221-4873

Submitted: 03/29/2016 13:15 Reported: 04/11/2016 22:03

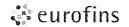
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-1	L5 using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.143	0.0200	0.900	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0480 J	0.0200	0.194 J	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.0859	0.0200	0.347	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.0588	0.0200	0.233	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.130	0.0200	0.516	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0980	0.0200	0.665	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.309	0.0200	1.69	0.109	1
07345	Trichloroethene	79-01-6	0.185	0.0200	0.992	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

### General Sample Comments

Laboratory	Campla	Analizaia	Pegord

			-				
CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
07345	TO-15 by SIM	EPA TO-15 using	1	E1609930AA	04/09/2016 02:07	Jacob E Bailey	1
	,	CTM					



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-3-IA Air

SUMMA# 526

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307861

LL Group # 1645083 Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 08:10

by CF

O'Brien & Gere, Inc.

through 03/23/2016 15:47

P.O. Box 4873

Submitted: 03/29/2016 13:15 Reported: 04/11/2016 22:03

Syracuse NY 13221-4873

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF	
Volat	iles in Air EPA TO-1	5 using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3		
07345	Carbon Tetrachloride	56-23-5	0.127	0.0200	0.799	0.126	1	
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1	
07345	1,1-Dichloroethane	75-34-3	0.0512	0.0200	0.207	0.0809	1	
07345	1,2-Dichloroethane	107-06-2	0.0736	0.0200	0.298	0.0809	ı	
07345	1,1-Dichloroethene	75-35-4	0.0555	0.0200	0.220	0.0793	1	
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1	
07345	trans-1,2-Dichloroethene	156-60-5	0.616	0.0200	2.44	0.0793	1	
07345	Tetrachloroethene	127-18-4	0.0833	0.0200	0.565	0.136	1.	
07345	1,1,1-Trichloroethane	71-55-6	0.425	0.0200	2.32	0.109	1.	
07345	Trichloroethene	79-01-6	0.249	0.0200	1.34	0.107	1	
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1	

MDL = Method Detection Limit

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	E1609930AA	04/09/2016 03:04	Jacob E Bailey	1



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-AA-2 Air

SUMMA# 842

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307862

LL Group # 1645083

Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 09:32

through 03/23/2016 16:58

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

Submitted: 03/29/2016 13:15 Reported: 04/11/2016 22:03

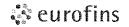
MDL = Method Detection Limit

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-1	5 using SIM	ppb(v)	ppb (v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.131	0.0200	0.822	0.126	1
07345	Chloroethane .	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.0310 J	0.0200	0.123 J	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0565	0.0200	0.383	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.0704	0.0200	0.384	0.109	1
07345	Trichloroethene	79-01-6	0.0757	0.0200	0,407	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

# General Sample Comments

Laboratory	Sample	Analysis	Record

			_				
CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	E1609930AA	04/09/2016 04:	02 Jacob E Bailey	1



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-7-IA Air

SUMMA# 886

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307863

LL Group # 1645083

Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 07:26 through 03/23/2016 15:13

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Submitted: 03/29/2016 13:15

Syracuse NY 13221-4873

Reported: 04/11/2016 22:03

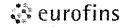
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-	L5 using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.114	0.0200	0.716	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0292 J	0.0200	0.118 J	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.0445 J	0.0200	0.180 J	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.0482 J	0.0200	0.191 <i>J</i>	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.0512	0.0200	0.203	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0608	0.0200	0.413	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.361	0.0200	1.97	0.109	1
07345	Trichloroethene	79-01-6	0.208	0.0200	1.12	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	ī

MDL = Method Detection Limit

#### General Sample Comments

Laboratory Sample Analysis Rec
--------------------------------

			-				
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
					Date and Time		Factor
07345	TO-15 by SIM	EPA TO-15 using	1	E1610230AA	04/11/2016 16:19	Jacob E Bailey	1
		CTM					



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-6-IA Air

SUMMA# 890

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307864

LL Group # 1645083 Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 07:40

through 03/23/2016 15:22

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Submitted: 03/29/2016 13:15 Reported: 04/11/2016 22:03 Syracuse NY 13221-4873

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat:	iles in Air EPA TO-	15 using SIM	ppb(v)	ppb (v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.118	0.0200	0.739	0.126	. 1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0300 J	0.0200	0.122 J	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.0430 J	0.0200	0.174 J	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.0423 J	0.0200	0.168 J	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.0498 J	0.0200	0.197 J	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0670	0.0200	0.455	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.373	0.0200	2.03	0.109	1
07345	Trichloroethene	79-01-6	0.187	0.0200	1.00	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Sample Analysis Record

			_				
CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
07345	TO-15 by SIM	EPA TO-15 using	1	E1610230AA	04/11/2016 16:51	Jacob E Bailey	1



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2309 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-4-IA Air

SUMMA# 1179

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307865

LL Group # 1645083 Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 08:24

through 03/23/2016 16:22

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

Submitted: 03/29/2016 13:15 Reported: 04/11/2016 22:03

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-	15 using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.126	0.0200	0.791	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0354 J	0.0200	0.143 J	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.0480 J	0.0200	0.194 J	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.0524	0.0200	0.208	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	0.262	0.0200	1.04	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.177	0.0200	0.703	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0565	0.0200	0.383	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.318	0.0200	1.74	0.109	1
07345	Trichloroethene	79-01-6	0.194	0.0200	1.05	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

#### General Sample Comments

Laboratory	Sample	Analysis	Record
Haboratory	Dampte	THE A STS	MECOTA

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using	1 .	E1610230AA	04/11/2016 17:23	Jacob E Bailey	1



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-6-SS Air

SUMMA# 1200

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307866

LL Group # 1645083 Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 07:40

by CF

O'Brien & Gere, Inc.

through 03/23/2016 15:22

P.O. Box 4873

Submitted: 03/29/2016 13:15 Reported: 04/11/2016 22:03

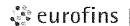
Syracuse NY 13221-4873

CAT No	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb (v)	ppb (v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	4.0	N.D.	25	20
05298	Chloroethane	75-00-3	N.D.	4.0	N.D.	11	20
05298	1,1-Dichloroethane	75-34-3	N.D.	4.0	N.D.	16	20
05298	1,2-Dichloroethane	107-06-2	N.D.	4.0	N.D.	16	20
05298	1,1-Dichloroethene	75-35-4	19 J	4.0	75 J	16	20
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	4.0	N.D.	16	20
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	4.0	N.D.	16	20
05298	Tetrachloroethene	127-18-4	100	4.0	680	27	20
05298	1,1,1-Trichloroethane	71-55-6	830	4.0	4,500	22	20
05298	Trichloroethene	79-01-6	370	4.0	2,000	21	20
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20

MDL = Method Detection Limit

#### General Sample Comments

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1609930AA	04/08/2016 16:50	Jacob E Bailey	20



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-3-SS Air

SUMMA# 522

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307867

LL Group # 1645083 Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 08:10

by CF

O'Brien & Gere, Inc.

through 03/23/2016 15:47

Submitted: 03/29/2016 13:15

P.O. Box 4873

Syracuse NY 13221-4873

Reported: 04/11/2016 22:03

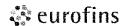
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat:	iles in Air EPA TO-	l.5	ppb(v)	ppb (v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	20	N.D.	130	100
05298	Chloroethane	75-00-3	N.D.	20	N.D.	53	100
05298	1,1-Dichloroethane	75-34-3	N.D.	20	N.D.	81	100
05298	1,2-Dichloroethane	107-06-2	N.D.	20	N.D.	81	100
05298	1,1-Dichloroethene	75-35-4	N.D.	20	N.D.	79	100
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	20	N.D.	79	100
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	20	N.D.	<b>7</b> 9	100
05298	Tetrachloroethene	127-18-4	120	20	800	140	100
05298	1,1,1-Trichloroethane	71-55-6	2,300	20	12,000	110	100
05298	Trichloroethene	79-01-6	2,500	20	13,000	110	100
05298	Vinyl Chloride	75-01-4	N.D.	20	N.D.	51	100

MDL = Method Detection Limit

#### General Sample Comments

Laboratory	Cample	Analweie	Pecord

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1609930AA	04/08/2016 17:40	Jacob E Bailey	100



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-655-2681 • www.LancasterLabs.com

Sample Description: 800-2-SS Air

SUMMA# 543

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307868

LL Group # 1645083 Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 09:10

by CF

O'Brien & Gere, Inc.

through 03/23/2016 16:37

P.O. Box 4873

Submitted: 03/29/2016 13:15

Syracuse NY 13221-4873

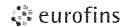
Reported: 04/11/2016 22:03

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat:	iles in Air EPA TO-1	5 ·	ppb(v)	ppb (v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	20	N.D.	130	100
05298	Chloroethane	75-00-3	N.D.	20	N.D.	53	100
05298	1,1-Dichloroethane	75-34-3	N.D.	20	N.D.	81	100
05298	1,2-Dichloroethane	107-06-2	N.D.	20	N.D.	81	100
05298	1,1-Dichloroethene	75-35-4	N.D.	20	N.D.	79	100
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	20	N.D.	79	100
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	20	N.D.	79	100
05298	Tetrachloroethene	127-18-4	N.D.	20	N.D.	1.40	100
05298	1,1,1-Trichloroethane	71-55-6	1,100	20	6,300	110	100
05298	Trichloroethene	79-01-6	1,300	20	6,900	110	100
05298	Vinyl Chloride	75-01-4	N.D.	20	N.D.	51	100

MDL = Method Detection Limit

### General Sample Comments

		Laborat	ory Sa	ample Analysi	s Record		
CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1609930AA	04/08/2016 18:30	Jacob E Bailey	100



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 - 717-656-2300 - Fax: 717-656-2681 - www.LancasterLabs.com

Sample Description: 800-4-SS Air

SUMMA# 826

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307869

LL Group # 1645083 # 08490 Account

Project Name: GE - Evandale

Collected: 03/23/2016 08:24

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

through 03/23/2016 16:22

Submitted: 03/29/2016 13:15

Reported: 04/11/2016 22:03

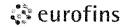
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	20	N.D.	130	100
05298	Chloroethane	75-00-3	N.D.	20	N.D.	53	1.00
05298	1,1-Dichloroethane	75-34-3	N.D.	20	N.D.	81	100
05298	1,2-Dichloroethane	107-06-2	N.D.	20	N.D.	81	100
05298	1,1-Dichloroethene	75-35-4	N.D.	20	N.D.	79	100
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	20	N.D.	79	100
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	20	N.D.	79	100
05298	Tetrachloroethene	127-18-4	200	20	1,300	140	100
05298	1,1,1-Trichloroethane	71-55-6	1,700	20	9,100	110	100
05298	Trichloroethene	79-01-6	780	20	4,200	110	100
05298	Vinyl Chloride	75-01-4	N.D.	20	N.D.	51	100

MDL = Method Detection Limit

#### General Sample Comments

Laboratory	Samole	Analysis	Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1609930AA	04/08/2016 19:20	Jacob E Bailey	100



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-5-SS Air

SUMMA# 884

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307870

LL Group # 1645083

Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 08:42

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

through 03/23/2016 15:56

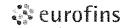
Submitted: 03/29/2016 13:15 Reported: 04/11/2016 22:03 Syracuse NY 13221-4873

CAT No.	Analysis Name	CAS Number	Final	Result	MDL	Final Re	esult	MDL	DF
/olat	iles in Air EPA TO-1	5	ppb(v)		ppb (v)	ug/m3		ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.		20	N.D.		130	100
05298	Chloroethane	75-00-3	N.D.		20	N.D.		53	100
05298	1,1-Dichloroethane	75-34-3	75	Ĵ	20	300	J	81	100
05298	1,2-Dichloroethane	107-06-2	N.D.		20	N.D.		81	100
05298	1,1-Dichloroethene	75-35-4	N.D.		20	N.D.		79	100
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		20	N.D.		79	100
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		20	N.D.		79	100
05298	Tetrachloroethene	127-18-4	20	J	20	140	J	140	100
05298	1,1,1-Trichloroethane	71-55-6	2,100		20	12,000		110	100
05298	Trichloroethene	79-01-6	2,000		20	11,000		110	100
05298	Vinyl Chloride	75-01-4	N.D.		20	N.D.		51	100

MDL = Method Detection Limit

#### General Sample Comments

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1609930AA	04/08/2016 20:09	Jacob E Bailey	100



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-1-SS Air

SUMMA# 1126

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307871

LL Group # 1645083

Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 08:56

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

through 03/23/2016 16:32 Submitted: 03/29/2016 13:15

Syracuse NY 13221-4873

Reported: 04/11/2016 22:03

CAT No.	Analysis Name	CAS Number	Final F	Result	MDL	Final R	esult	WDL	DF
Volat	iles in Air EPA TO-1	.5	ppb(v)		ppb(v)	ug/m3		ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.		40	N.D.		250	200
05298	Chloroethane	75-00-3	N.D.		40	N.D.		110	200
05298	1,1-Dichloroethane	75-34-3	200	J	40	810	J	160	200
05298	1,2-Dichloroethane	107-06-2	N.D.		40	N.D.		160	200
05298	1,1-Dichloroethene	75-35-4	350		40	1,400		160	200
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		40	N.D.		160	200
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		40	N.D.		160	200
05298	Tetrachloroethene	127-18-4	42	J	40	290	J	270	200
05298	1,1,1-Trichloroethane	71-55-6	5,600		40	31,000		220	200
05298	Trichloroethene	79-01-6	6,400		40	35,000		210	200
05298	Vinyl Chloride	75-01-4	N.D.		40	N.D.		100	200

MDL = Method Detection Limit

#### General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1609930AA	04/08/2016 20:54	Jacob E Bailey	200



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-7-SS Air

SUMMA# 1180

GE-Evandale Bldg 800 Assessment

LL Sample # AQ 8307872

LL Group # 1645083 Account # 08490

Project Name: GE - Evandale

Collected: 03/23/2016 07:26

through 03/23/2016 15:13

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

Submitted: 03/29/2016 13:15 Reported: 04/11/2016 22:03

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-1	L5	ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	4.0	N.D.	25	20
05298	Chloroethane	75-00-3	N.D.	4.0	N.D.	11	20
05298	1,1-Dichloroethane	75-34-3	N.D.	4.0	N.D.	16	20
05298	1,2-Dichloroethane	107-06-2	N.D.	4.0	N.D.	16	20
05298	1,1-Dichloroethene	75-35-4	N.D.	4.0	N.D.	16	20
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	4.0	N.D.	16	20
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	4.0	N.D.	16	20
05298	Tetrachloroethene	127-18-4	33	4.0	220	27	20
05298	1,1,1-Trichloroethane	71-55-6	400	4.0	2,200	22	20
05298	Trichloroethene	79-01-6	320	4.0	1,700	21	20
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20

MDL = Method Detection Limit

#### General Sample Comments

Laboratory	Sample	Analysis	Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1609930AA	04/08/2016 21:49	Jacob E Bailey	20

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### Quality Control Summary

Client Name: O'Brien & Gere, Inc.

Reported: 04/11/2016 22:03

Group Number: 1645083

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

#### Method Blank

Analysis Name	Result	MDL
	ppb(v)	ppb (v)
Batch number: D1609930AA Carbon Tetrachloride Chloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethane 1,1,1-Trichloroethane Trichloroethane	Sample number(s): N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	
Vinyl Chloride  Batch number: E1609930AA Carbon Tetrachloride Chloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl Chloride	Sample number(s): N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	
Batch number: E1610230AA Carbon Tetrachloride Chloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl Chloride	Sample number(s): N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	8307863-8307865 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200

# LCS/LCSD

Analysis Name	LCS Spike	LCS	LCSD Spike	LCSD	LCS	LCSD	LCS/LCSD	RPD	RPD
•	Added	Conc	Added	Conc	%REC	%REC	Limits		Max

<sup>\*-</sup> Outside of specification

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: O'Brien & Gere, Inc.

Reported: 04/11/2016 22:03

Group Number: 1645083

Analysis Name	LCS Spike Added ppb(v)	LCS Conc ppb (v)	LCSD Spike Added ppb(v)	LCSD Conc ppb (v)	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D1609930AA	Sample numbe	r(s): 8307	866-8307872						
Carbon Tetrachloride	10	7.75	10	8.01	77	80	70-130	3	25
Chloroethane	10	8.24	10	8.90	82	8.9	63-119	8	25
1,1-Dichloroethane	10	8.35	10	8.88	83	89	67-124	6	25
1,2-Dichloroethane	10	9.21	10	9.19	92	92	70-130	Û	25
1,1-Dichloroethene	10	7.60	10	8.09	76	81	61-128	6	25
cis-1,2-Dichloroethene	10	8.48	10	9.29	85	93	65-121	9	25
trans-1,2-Dichloroethene	10	8.93	10	9.04	89	90	66-121	1	25
Tetrachloroethene	10	8.12	1.0	8.41	81	84	70-130	3	25
1,1,1-Trichloroethane	10	8.12	10	8.52	81	85	70-130	5	25
Trichloroethene	10	8.62	10	9.17	86	92	70-130	6	25
Vinyl Chloride	10	7.96	10	8.64	80	86	70-130	8	25
Batch number: E1609930AA	Sample numbe	r(s): 8307	857-8307862						
Carbon Tetrachloride	0.260	0.266	0.260	0.261	102	100	70-130	2	25
Chloroethane	0.243	0.285	0.243	0.264	117	109	70-130	8	25 .
1,1-Dichloroethane	0.253	0.286	0.253	0.273	113	108	70-130	5	25
1,2-Dichloroethane	0.260	0.286	0.260	0.286	110	110	61-154	0	25
1,1-Dichloroethene	0.250	0.269	0.250	0.264	107	106	70-130	2	25
cis-1,2-Dichloroethene	0.263	0.281	0.263	0.279	107	106	54-118	1	25
trans-1,2-Dichloroethene	0.250	0.288	0.250	0.278	115	111	70-130	3	25
Tetrachloroethene	0.268	0.272	0.268	0.262	102	98	48-130	4	25
1,1,1-Trichloroethane	0.258	0.260	0.258	0.249	101	97	70-130	4	25
Trichloroethene	0.258	0.294	0.258	0.288	114	112	70-130	2	25
Vinyl Chloride	0.253	0.273	0.253	0.279	108	110	64-119	2	25
Batch number: E1610230AA	Sample numbe	r(s): 8307	863~8307865						
Carbon Tetrachloride	0.260	0.248	0.260	0.253	95	97	70-130	2	25
Chloroethane	0.243	0.258	0.243	0.242	106	99	70-130	7	25
1,1-Dichloroethane	0.253	0.250	0.253	0.255	99	101	70-130	2	25
1,2-Dichloroethane	0.260	0.274	0.260	0.266	105	102	61-154	3	25
1,1-Dichloroethene	0.250	0.230	0.250	0.232	92	93	70-130	1	25
cis-1,2-Dichloroethene	0.263	0.262	0.263	0.258	99	98	54-118	1	25
trans-1,2-Dichloroethene	0.250	0.252	0.250	0.264	101	106	70-130	5	25
Tetrachloroethene	0.268	0.264	0.268	0.261	99	97	48-130	1	25
1,1,1-Trichloroethane	0.258	0.238	0.258	0.254	92	98	70-130	6	25
Trichloroethene	0.258	0.267	0.258	0.267	103	104	70-130	ō	25
Vinyl Chloride	0.253	0.235	0.253	0.245	93	97	64-119	4	25

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

# Summa Canister Field Test Data/Chain of Custody

र्दे eurofins	1	For Eurofine Lancaster Lahoratories Environmental use only	
The Contonio	Lancaster Laboratories	For Eurofins Lancaster Laboratories Environmental use only  Acct. # 8490 Group # 1945685 Sample # 8351851-72 Bottle Order (SCR) #	
	Environmental	(	

Client Information							Turnaround Time Requested (TAT) (circle one) Analyses Requested								
O'Brien & Gere English Project Name/#		Account# 0849	0		Standard Rush (specify)										
Project Name ## GC Evendule Bldg.	800 Ass	essuert		·	Data Package Required?  Yes No Yes No						MTBE				
Project Manager  Matt Traister	Bldg. 800 Assessment fer 11600269										110   101				
Sampler Quote # C. Forman T. Dulton 212172 A						nt	Start	Stop	St	art	Stop	BTEX	(select range below)		
Name of state where samples were collected  OHIO					Maxim Minimi							15	elect ra	tracer	arch
Sample Identification	Start Date/Time (24-hour clock)		Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Fleld ("Hg) (Stop)	Interior Temp, (F) (Start)	Interior Temp. (F) (Stop)	Flow Re	g. ID C	an ID	Can Size (L)	Controller Flowrate (mi./min)	EPA TO - ' EPA 18	25	Helium as tracer	Library Search
800-1-IA	31231160856	3123/16 1300	-29.1	-3.8			41528		(6	6	10.5	X			
800-AA-1	3123114920	3/23/16/53	-29.2	-9.3			30113			6	16,4	<u> </u>			
800 - 2 - IA :	3/23/16 010 3/23/16 0842	3123116 637	-29-2	-8.3				90.13		6	10.4	X.			
300-5-IA	3 23114 0842	3123116,556	-29.1	-9.2				45, 5		6	10.4	XL_			
800-3-1A	312311 OB10	3123116 1547	-29.2	-8.1			30111			6	14				
800-AA-2	3123116,932	312311658	-29.1	- B,O			3040	37.0	/2.	62	10.6	$\mathbb{Z}$			
800-7-IA	3123116 5726	31231161513	-29,2	-7.2			3367	14 8.	86	6	10.5				
800-6-IA	3123116 0726 3123116 0740	3123114 1522	-29.2	-7.6%	D)		3320	67.5	0	6	10.4				
800-4-IA	3123/16/0824	3/23/16/622	-29.2	-6.4			3367			6	10. F	6			
												7			
					/										
Instructions/QC Requirements & Picak report only	& Comments	e voc	Lot.	6 BO	\/\		EPA 25	(check on	a)		C1 - C4 C1 - C10			- C10 - C10	(GRO)
Please report TCE		DC .		O DO	х С						C2 - C4		•		
Canisters Shipped by:  Date/Time: Canisters Received by:  Date/Time: Relind  OBE: 3/2/16/1660			iquished by			Date/Time	Re Re	eceived i	oy:			Date/Tin	ne:		
Relinquished by: Date	e/Time: Received i		Date		yd berfelupi	-		Date/Time	Date/Time: Recei		Received by:			Date/Tin	ne;
Relinquished by: Date	Date/Time: Received by: Date/Time: Rei			galished by	Date/Time: Received by: 2/25/16-1206 Britter					oy: Bristov	Also) 3/29/16/1				

# Summa Canister Field Test Data/Chain of Custody

4.6			<u> </u>								idili e							
🗱 eurofins	Lancaster Labo Environmental	oratories Acct.	# <u>8490</u>	Group # <u>_\</u>	For Euro いろうりとろ	ofins Lancaster ( Sample #	aboratories	Environme	ental use	only Bo	ttle Order (SCi	₹)#_				<del></del> .		
		Client Informat	lon			Turna	round Tir	ne Requ	ested (	TAT) (cl	rcle one)	A	naly	/ses	es Requested			
Olbrice Fe	Serc Engli	neers	Account #	3490		Standard Rush (specify)												
Project Name/# GC-Gvch cl	de Oldg	neers , 800 Asse	ssneut			Data Package Required?  Yes  No  Yes  No												
Project Manager Matt Ta	Matt Traister 11600269						Temperature (F) Pressure ("Hg)							below)				
Matt Traister 11600269  Sampler Quote # 212172A					Amblent	Start	Stop		Start	Stop	]	BTEX	range be					
Name of state where samples were collected  OHIO				Maxlmum Minlmum				····		15		elect ra	racer	뒫				
Sample Id	entification	Start Date/Time (24-hour clock)	Stop Date/Time (24-hour clock)	Canister Pressure In Field ("Hg) (Start)		Interior Inter Temp. Tem (F) (F (Start) (Sto	ıp. )	Reg. ID	Can ID	Can Size (L)	Controller Flowrate (mL/min)	-01	EPA 18	EPA 25 (se	Helium as tracer 02/C02	Library Search		
800-6-5	SS	31231140740	3/23/16 1522	-29.2	-6,5	/	675	024.	1600	6	16.8	$\mathbf{x}$						
500 - 3 ·		3123/16 210	31231161547	1290	-I (	<i>Y</i>		309 .		6	10.4	ľχ						
800-2		3123160910	3123116 <sub>16</sub> 37 3123116 <sub>16</sub> 22 3123116 <sub>15</sub> 56	-28.8	-9.5	Τ / /	/ 25	2295 .	543	6	10.5	ľχ						
800-4-		3123/160324	3123/16/622	-29.2	-7.1		411	305 9	826	6	18.4	ľX						
800-5-	55	S/23/16 084Z	3123/16 1556	-29.1	-8.5	1/1/	30	068 3	584	6.	10.7	ľχ						
800-1-		- 121621100826	1634	1-29.2	1 8 4	17 V	33	5720	1126	6	10,4	$\prod_{\mathbf{x}}$						
300-7-		3123/16/26	3123114 1513	-29.2	-8.C	/ /	36	11440	1140	6	10.4	又			$\bot$			
												╀	igdot	$\vdash \vdash$	$\dashv$			
						<del>                                     </del>						+	H	$\vdash$	+	++-		
		· · ·	-							<u> </u>		+	$\square$		$\dashv$	1		
Instructions/QC	Requirement	ts & Comments	- laranated	o voc	BOX	ES)	EPA :	25 (check	one)		C1 - C4 C1 - C10				- C10 - C10	(GRO)		
ylean r	cport of	[5-1-F]	Baselvind Erro	la-	te/Time: ; Rel	inguished by:		lĎafa	Time:	Received	C2 - C4				Date/Tir	me.		
Canisters Shipped by:	14:50	3/17/16	-	OBG- 3/	21/16/1200													
Relinquished by:		Date/Time: Received	ty: )	Da	le/Time: Rel	inquished by:			/Time;	Received		\			Dale/Tir	me:		
Relinguished by		Date/Time: Received	by;	Da	le/Time: Rej	inguished by	/	Date	/Time: /	Received	by:		7		Date/Tir	me;		

-086

Relinquished by:

Dale/Time:

Received by:

3/29/16/13/5



### Sample Administration Receipt Documentation Log

Doc Log ID:

140917

Group Number(s):

1645083

Client: O'Brien & Gere

**Delivery and Receipt Information** 

Delivery Method:

Fed Ex

Arrival Timestamp:

03/29/2016 13:15

Number of Packages:

<u>6</u>

Number of Projects:

1

State/Province of Origin:

OH

**Arrival Condition Summary** 

Shipping Container Sealed:

Yes No

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

N/A

Sample Date/Times match COC: VOA Vial Headspace ≥ 6mm:

Yes N/A

Paperwork Enclosed:

Yes

Total Trip Blank Qty:

0 Yes

Samples Intact: Missing Samples:

Samples Chilled:

Yes No

Air Quality Samples Present: Air Quality Flow Controllers Present:

Air Quality Returns:

Yes

Extra Samples:

No No

Flow Controller Quantity:

16 No

Unpacked by Krista Abel (3058) at 13:43 on 03/29/2016

General Comments:

Discrepancy in Container Qty on COC:

Rec'd 1 bag of Summa parts.



## **Explanation of Symbols and Abbreviations**

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D.	Reporting Limit	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL.	microliter(s)
		pg/L	picogram/liter

< less than

greater than

parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For ppm aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

parts per billion ppb

Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight basis

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

#### Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 + 717-656-2308 - Fax; 717-656-2681 - www.tancasterLabs.com

#### ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 O'Brien & Gere, Inc. P.O. Box 4873 Syracuse NY 13221-4873

Report Date: October 31, 2016

Project: GE - Evandale

Submittal Date: 10/18/2016 Group Number: 1722292 PO Number: 11600269 State of Sample Origin: OH

	Lancaster Labs
Client Sample Description	(LL) #
800-6-IA Air	8649137
800-3-IA Air	8649138
800-AA-J Air	8649139
800-5-IA Air	8649140
800-2-IA Air	8649141
800-1-IA Air	8649142
800-7-IA Air	8649143
800-AA-2 Air	8649144
800-4-IA Air	8649145
800-7-SS Air	8649146
800-6-SS Air	8649147
800-4-SS Air	8649148
800-2-SS Air	8649149
800-1-SS Air	8649150
800-3-SS Air	8649151
800-5-SS Air	8649152

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <a href="http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/">http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</a>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To O'Brien & Gere, Inc.
Electronic Copy To O'Brien & Gere, Inc.

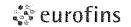
Attn: Richard L. Boone Attn: Chase Forman

2425 New Holland Fike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Respectfully Submitted,

Megan A. Moeller Senior Specialist

(717) 556-7261



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-6-IA Air

SUMMA# 1360

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649137

LL Group # 1722292

Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 06:43

by CF

O'Brien & Gere, Inc.

through 10/12/2016 12:31

P.O. Box 4873

Submitted: 10/18/2016 15:10 Reported: 10/31/2016 13:34

Syracuse NY 13221-4873

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat:	iles in Air EPA TO-15	using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.114	0.0200	0.716	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.112	0.0200	0.454	0.0809	1.
07345	1,2-Dichloroethane	107-06-2	N,D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.173	0.0200	0.685	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2 .	0.112	0.0200	0.445	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.630	0.0200	2.50	0.0793	1
07345	Tetrachloroethene	127-18-4	0.111	0.0200	0.755	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.707	0.0200	3.86	0.109	1
07345	Trichloroethene	79-01-6	0.531 .	0.0200	2.86	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

#### Sample Comments

Laboratory Sample Analysis Record	Laboratory	Sample	Analysis	Record
-----------------------------------	------------	--------	----------	--------

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	e	Analyst	Dilution Factor
	TO-15 by SIM	EPA TO-15 using	1	D1629530AA	10/21/2016	15:51	Jacob E Bailey	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-3-IA Air

SUMMA# 1406

Building 800 Soil Vapor Event#2

75-01-4

LL Sample # AQ 8649138

0.0511

LL Group # 1722292 Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 07:36

by CF

O'Brien & Gere, Inc.

through 10/12/2016 15:36

P.O. Box 4873

0.0200

N.D.

Submitted: 10/18/2016 15:10 Reported: 10/31/2016 13:34

Syracuse NY 13221-4873

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDI₄	DF
Volat.	iles in Air EPA TO	-15 using SIM	ppb (v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.105	0.0200	0.658	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.121	0.0200	0.490	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0:0809	1
07345	1,1-Dichloroethene	75-35-4	0.203	0.0200	0,806	0.0793	. 1
07345	cis-1,2-Dichloroethene	156-59-2	0.0912	0.0200	0.361	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.184	0.0200	0.728	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0573	0,0200	0.389	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.581	0.0200	3.17	0.109	1
07345	Trichloroethene	79-01-6	0.464	0.0200	2.50	0.107	1

MDL = Method Detection Limit

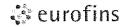
07345 Vinyl Chloride

#### Sample Comments

N.D.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
07345	TO-15 by SIM	EPA TO-15 using	1	D1629530AA	10/21/2016 16:19	Jacob E Bailey	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-AA-I Air

SUMMA# 1420

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649139

LL Group # 1722292 Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 08:34

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

Submitted: 10/18/2016 15:10 Reported: 10/31/2016 13:34

through 10/12/2016 16:05

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb (v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.123	0.0200	0.775	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1.1-Dichloroethane	75-34-3	0.0255 J	0.0200	0.103 J	0.0809	1
07345	1.2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	0.242	0.0200	0.960	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.0388 J	0.0200	0.154 J	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0426 J	0.0200	0.289 J	0.136	1
07345	1.1.1-Trichloroethane	71-55-6	0.124	0.0200	0.674	0.109	1
07345	Trichloroethene	79-01-6	0.0912	0.0200	0.490	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

The GC/MS internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here

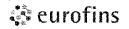
are from the initial injection of the sample.

MDL = Method Detection Limit

#### Sample Comments

All OC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
No. 07345	TO-15 by SIM	EPA TO-15 using	1	D1629530AA	10/21/2016 16:48	Jacob E Bailey	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-5-IA Air

SUMMA# 504

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649140

LL Group # 1722292

Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 08:15

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

through 10/12/2016 15:46 Submitted: 10/18/2016 15:10

Reported: 10/31/2016 13:34

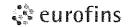
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb (v)	ppb (v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.102	0.0200	0.642	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0416 J	0.0200	0.169 J	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1 .
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.379	0.0200	1.50	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0452 J	0.0200	0.307 J	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.208	0.0200	1.13	0.109	1
07345	Trichloroethene	79-01-6	0.186	0.0200	1.00	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

#### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using	1	D1629530AA	10/21/2016 17:16	Jacob E Bailey	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-2-IA Air

SUMMA# 515

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649141

LL Group # 1722292

Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 07:12 by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

Submitted: 10/18/2016 15:10 Reported: 10/31/2016 13:34

through 10/12/2016 15:06

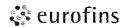
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat:	iles in Air EPA TO-	15 using SIM	ppb(v)	ppb (v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.221	0.0200	1.39	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0377 J	0.0200	0.153 J	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.0404 J	0.0200	0.160 J	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	0.0402 J	0.0200	0.159 J	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	1.01	0.200	4.00	0.793	10
07345	Tetrachloroethene	127-18-4	0.0493 J	0.0200	0.335 J	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.287	0.0200	1.56	0.109	1
07345	Trichloroethene	79-01-6	0.174	0.0200	0.935	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

#### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using	1	D1629530AA	10/21/2016 17:43	Jacob E Bailey	1
07345	TO-15 by SIM	EPA TO-15 using SIM	1	D1630230AA	10/28/2016 16:20	Jacob E Bailey	10



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-1-IA Air

SUMMA# 508

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649142

LL Group # 1722292 Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 07:00

by CF

O'Brien & Gere, Inc.

through 10/12/2016 14:59

P.O. Box 4873

Submitted: 10/18/2016 15:10

Syracuse NY 13221-4873

Reported: 10/31/2016 13:34

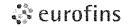
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat.	iles in Air EPA TO-	15 using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.149	0.0200	0.937	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0604	0.0200	0.245	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.0874	0.0200	0.346	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	0.0675	0.0200	0.268	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.437	0.0200	1.73	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0538	0.0200	0.365	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.344	0.0200	1.88	0.109	1
07345	Trichloroethene	79-01-6	0.241	0.0200	1.29	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

#### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

			-				
CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
07345	TO-15 by SIM	EPA TO-15 using	1	D1629530AA	10/21/2016 18:11	Jacob E Bailey	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-7-IA Air

SUMMA# 1228

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649143

LL Group # 1722292

Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 06:32

by CF

O'Brien & Gere, Inc.

through 10/12/2016 13:32

P.O. Box 4873

Submitted: 10/18/2016 15:10

Syracuse NY 13221-4873

Reported: 10/31/2016 13:34

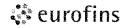
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
olat:	iles in Air EPA TO-	15 using SIM	ppb (v)	ppb(v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.101	0.0200	0.638	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	0.0874	0.0200	0.354	0.0809	1
07345	1,2-Dichloroethane	107~06-2	0.0788	0.0200	0.319	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.109	0.0200	0.434	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	0.0775	0.0200	0.307	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.238	0.0200	0.942	0.0793	1
07345	Tetrachloroethene	127-18-4	0.103	0.0200	0.695	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.592	0.0200	3.23	0.109	1
7345	Trichloroethene	79-01-6	0.466	0.0200	2.51	0.107	1
7345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

#### Sample Comments

Laboratory Sam	ple Anal	ysis	Record
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CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	D1629530AA	10/21/2016 18:39	Jacob E Bailey	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-AA-2 Air

SUMMA# 829

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649144

LL Group # 1722292

Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 08:39

by CF

O'Brien & Gere, Inc.

through 10/12/2016 16:11

P.O. Box 4873

Submitted: 10/18/2016 15:10

Syracuse NY 13221-4873

Reported: 10/31/2016 13:34

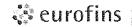
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
olat:	iles in Air EPA TO-	15 using SIM	ppb(v)	ppb (v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.121	0.0200	0.759	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	I
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0200	N.D.	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0441 J	0.0200	0.299 J	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.113	0.0200	0.614	0.109	1
07345	Trichloroethene	79-01-6	0.0872	0.0200	0.468	0.107	1
07345	Vinyl Chloride	75-01-4	N D	0.0200	N.D.	0.0511	1

MDL = Method Detection Limit

#### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using	1	D1629530AA	10/21/2016 19:07	Jacob E Bailey	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-4-IA Air

SUMMA# 328

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649145

LL Group # 1722292 Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 07:26

by CF

O'Brien & Gere, Inc.

through 10/12/2016 15:16

P.O. Box 4873

Submitted: 10/18/2016 15:10

Syracuse NY 13221-4873

Reported: 10/31/2016 13:34

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb(v)	ppb (v)	ug/m3	ug/m3	
07345	Carbon Tetrachloride	56-23-5	0.119	0.0200	0.746	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	. 1
07345	1,1-Dichloroethane	75-34-3	0.0477 J	0.0200	0.193 J	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	0.0686	0.0200	0.272	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	0.0694	0.0200	0.275	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0,386	0.0200	1.53	0.0793	1
07345	Tetrachloroethene	127-18-4	0.0549	0.0200	0.372	0.136	1
07345	1,1,1-Trichloroethane	71-55-6	0.346	0.0200	1.89	0.109	1
07345	Trichloroethene	79-01-6	0.210	0.0200	1.13	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1
mh e	CO/MO internal standard week aman	a ware autaida	of the OC				

The  $\operatorname{GC}/\operatorname{MS}$  internal standard peak areas were outside of the  $\operatorname{QC}$ 

limits for both the initial injection and the re-injection. The values here

are from the initial injection of the sample.

MDL = Method Detection Limit

#### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using	1	D1629530AA	10/21/2016 19:34	Jacob E Bailey	1



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-7-SS Air

SUMMA# 856

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649146

LL Group # 1722292 Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 06:32

by CF

O'Brien & Gere, Inc.

through 10/12/2016 14:32

P.O. Box 4873

Submitted: 10/18/2016 15:10

Syracuse NY 13221-4873

Reported: 10/31/2016 13:34

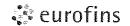
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat:	iles in Air EPA TO-1	.5	ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	4.0	N.D.	25	20
05298	Chloroethane	75-00-3	N.D.	4.0	N.D.	11	20
05298	1,1-Dichloroethane	75-34-3	N.D.	4.0	N.D.	16	20
05298	1,2-Dichloroethane	107-06-2	N.D.	4.0	N.D.	16	- 20
05298	1,1-Dichloroethene	75-35-4	N.D.	4.0	N.D.	16	20
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	4.0	N.D.	16	20
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	4.0	N.D.	16	20
05298	Tetrachloroethene	127-18-4	41	4.0	270	27	20
05298	1,1,1-Trichloroethane	71-55-6	450	4.0	2,500	22	20
05298	Trichloroethene	79-01-6	300	4.0	1,600	21	20
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20

MDL = Method Detection Limit

#### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1630130AA	10/27/2016 15:50	Jacob E Bailey	20



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-6-SS Air

SUMMA# 820

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649147

LL Group # 1722292

Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 06:43

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

Submitted: 10/18/2016 15:10 Reported: 10/31/2016 13:34

through 10/12/2016 14:43

CAT No.	Analysis Name	CAS Number	Final Result	MDL .	Final Result	MDL	DF
olat.	iles in Air EPA TO-	15	ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	4.0	N.D.	25	20
05298	Chloroethane	75-00-3	N.D.	4.0	N.D.	11	20
05298	1,1-Dichloroethane	75-34-3	N.D.	4.0	N.D.	16	20
05298	1,2-Dichloroethane	107-06-2	N.D.	4.0	N.D.	16	20
05298	1,1-Dichloroethene	75-35-4	21	4.0	83	16	20
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	4.0	N.D.	16	20
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	4.0	N.D.	16	20
05298	Tetrachloroethene	127-18-4	110	4.0	780	27	20
05298	1,1,1-Trichloroethane	71-55-6	790	4.0	4,300	22	20
05298	Trichloroethene	79-01-6	400	4.0 .	2,100	21	20
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20

MDL = Method Detection Limit

#### Sample Comments

	·	Laborat	ory Sa	mple Analysi:	s Record		
CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1630130AA	10/27/2016 16:21	Jacob E Bailey	20



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-4-SS Air

SUMMA# 1038

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649148

LL Group # 1722292 Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 07:26

through 10/12/2016 15:16

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Submitted: 10/18/2016 15:10 Reported: 10/31/2016 13:34

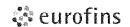
Syracuse NY 13221-4873

CAT	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-1	5	ppb(v)	ppb (v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	4.0	N.D.	25	20
05298	Chloroethane	75-00-3	N.D.	4.0	N.D.	11	20
05298	1,1-Dichloroethane	75-34-3	7.2 J	4.0	29 Ј	16	20
05298	1,2-Dichloroethane	107-06-2	N.D.	4.0	N.D.	16	20
05298	1,1-Dichloroethene	75-35-4	N.D.	4.0	N.D.	16	20
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	4.0	N.D.	16	20
05298	trans-1,2-Dichloroethene	156-60-5	N D	4.0	N.D.	16	20
05298	Tetrachloroethene	127-18-4	350	4.0	2,400	27	20
05298	1,1,1-Trichloroethane	71-55-6	2,000	20	11.,000	110	100
05298	Trichloroethene	79-01-6	980	4.0	5,200	21	20
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20

MDL = Method Detection Limit

#### Sample Comments

		Laborat	ory Sa	mple Analysi	is Record		
- CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1630130AA	10/27/2016 16:52	Jacob E Bailey	20
00000	TO 15 TON 12vt Tight	EDA TO-1E	7	<b>ごうどうりょうりろろ</b>	10/00/0016 00-16	Jacob E Bailey	100



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-2-SS Air

SUMMA# 1233

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649149

LL Group # 1722292 Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 07:12

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Submitted: 10/18/2016 15:10 Reported: 10/31/2016 13:34

through 10/12/2016 15:06

Syracuse NY 13221-4873

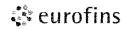
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	4.0	N.D.	25	20
05298	Chloroethane	75-00-3	N.D.	4.0	N.D.	11	20
05298	1,1-Dichloroethane	75-34-3	N.D.	4.0	N.D.	16	20
05298	1,2-Dichloroethane	107-06-2	N.D.	4.0	N.D.	16	20
05298	1,1-Dichloroethene	75-35-4	6.1 J	4.0	24 J	16	20
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	4.0	N.D.	16	. 20
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	4.0	N.D.	16	20
05298	Tetrachloroethene	127-18-4	31	4.0	210	27	20
05298	1,1,1-Trichloroethane	71-55-6	1,600	20	8,600	110	100
05298	Trichloroethene	79-01-6	450	4.0	2,400	21	20
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20

MDL = Method Detection Limit

#### Sample Comments

Laboratory S	Sample A	Analysis	Record
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CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1630130AA	10/27/2016 17:17	Jacob E Bailey	20
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1630130AA	10/28/2016 00:42	Jacob E Bailey	100



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-1-SS Air

SUMMA# 896

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649150

LL Group # 1722292 Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 07:00

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

Corrected. 10/12/2016 07:

through 10/12/2016 14:59

Submitted: 10/18/2016 15:10 Reported: 10/31/2016 13:34

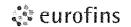
CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb (v)	ppb(v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	4.0	N.D.	25	20
05298	Chloroethane	75-00-3	N.D.	4.0	N.D.	11	20
05298	1,1-Dichloroethane	75-34-3	340	4.0	1,400	16	20
05298	1,2-Dichloroethane	107-06-2	N.D.	4.0	N.D.	16 .	20
05298	1,1-Dichloroethene	75-35-4	660	4.0	2,600	16	20
05298	cis-1,2-Dichloroethene	156-59-2	36	4.0	140	16 .	20
05298	trans-1,2-Dichloroethene	156-60-5	13 J	4.0	50 J	16	20
05298	Tetrachloroethene	127-18-4	85	4.0	580	27	20
05298	1,1,1-Trichloroethane	71-55-6	7,500	40	41,000	220	200
05298	Trichloroethene	79-01-6	7,200	40	39,000	210	200
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20

MDL = Method Detection Limit

#### Sample Comments

Laboratory	Sample	Analysis	Record
			TO COLU

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
	TO 15 VOA Ext. List TO 15 VOA Ext. List	EPA TO-15 EPA TO-15	1	E1630130AA E1630130AA	10/27/2016 17:42 10/28/2016 01:10	•	20 200



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-3-SS Air

SUMMA# 848

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649151

LL Group # 1722292

Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 07:36

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

Syracuse NY 13221-4873

Submitted: 10/18/2016 15:10 Reported: 10/31/2016 13:34

through 10/12/2016 15:36

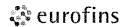
CAT No.	Analysis Name	CAS Number	Final Result	MOL	Final Result	MDL	DF
7olat	iles in Air EPA TO-1	L <b>5</b>	ppb(v)	ppb (v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	4.0	N.D.	25	20
05298	Chloroethane	75-00-3	N.D.	4.0	N.D.	11	20
05298	1,1-Dichloroethane	75-34-3	9.9 J	4.0	40 J	16	20
05298	1,2-Dichloroethane	107-06-2	N.D.	4.0	N.D.	16	20
05298	1,1-Dichloroethene	75-35-4	N.D.	4.0	N.D.	16	20
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	4.0	N.D.	16	20
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	4.0	N.D.	16	20
05298	Tetrachloroethene	127-18-4	270	4.0	1,800	27	20
05298	1,1,1-Trichloroethane	71-55-6	2,800	20	15,000	110	100
05298	Trichloroethene	79-01-6	2,600	20	14,000	110	100
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20

MDL = Method Detection Limit

#### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ıe.	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1630130AA	10/27/2016	18:06	Jacob E Bailey	20
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1630130AA	10/28/2016	01:42	Jacob E Bailey	100



## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 800-5-SS Air

SUMMA# 880

Building 800 Soil Vapor Event#2

LL Sample # AQ 8649152

LL Group # 1722292

Account # 08490

Project Name: GE - Evandale

Collected: 10/12/2016 08:15

by CF

O'Brien & Gere, Inc.

P.O. Box 4873

through 10/12/2016 14:15 Submitted: 10/18/2016 15:10

Syracuse NY 13221-4873

Reported: 10/31/2016 13:34

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
olat:	iles in Air EPA TO-1	5	ppb(v)	ppb (v)	ug/m3	ug/m3	
05298	Carbon Tetrachloride	56-23-5	N.D.	4.0	N.D.	25	20
05298	Chloroethane	75-00-3	N.D.	4.0	N.D.	11	20
05298	1,1-Dichloroethane	75-34-3	130	4.0	530	16	20
05298	1,2-Dichloroethane	107-06-2	N.D.	4.0	N.D.	16	20
05298	1,1-Dichloroethene	75-35-4	9.4 J	4.0	37 J	16 .	20
05298	cis-1,2-Dichloroethene	156-59-2	28	4.0	110	16	20
05298	trans-1,2-Dichloroethene	156-60-5	5.6 J	4.0	22 J	16	20
05298	Tetrachloroethene	127-18-4	38	4 0	260	27	20
05298	1,1,1-Trichloroethane	71-55-6	2,700	20	15,000	110	100
05298	Trichloroethene	79-01-6	2,100	20	11,000	110	100
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20

MDL = Method Detection Limit

#### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1630130AA	10/27/2016 18:31	Jacob E Bailey	20
05298	TO 15 VOA Ext. List	EPA TO-15	1	E1630130AA	10/28/2016 02:14	Jacob E Bailey	100

## Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

### Quality Control Summary

Client Name: O'Brien & Gere, Inc.

Reported: 10/31/2016 13:34

Group Number: 1722292

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

#### Method Blank

Analysis Name	Result	MDL	Result	MDL
	ppb(v)	ppb (v)	ug/m3	ug/m3
Batch number: D1629530AA	Sample num	ber(s): 8649	137-8649145	
Carbon Tetrachloride	N.D.	0.0200	N.D.	0.126
Chloroethane	N.D.	0.0200	N.D.	0.0528
1,1-Dichloroethane	N.D.	0.0200	N.D.	0.0809
1,2-Dichloroethane	N.D.	0.0200	N.D.	0.0809
1,1-Dichloroethene	N.D.	0.0200	N.D.	0.0793
cis-1,2-Dichloroethene	N.D.	0.0200	N.D.	0.0793
trans-1,2-Dichloroethene	N.D.	0.0200	N.D.	0.0793
Tetrachloroethene	N.D.	0.0200	N.D.	0.136
1,1,1-Trichloroethane	N.D.	0.0200	N.D.	0.109
Trichloroethene	N.D.	0.0200	N.D.	0.107
Vinyl Chloride	N.D.	0.0200	N.D.	0.0511
Batch number: D1630230AA	Sample num	ber(s): 8649	141	
		0.0000	NT TO	0 0702
trans-1,2-Dichloroethene	N.D.	0,0200	N.D.	0.0793
trans-1,2-Dichloroethene Batch number: E1630130AA		0.0200 ber(s): 8649		0.0793
				1.3
Batch number: E1630130AA	Sample num	ber(s): 8649	146-8649152	
Batch number: E1630130AA Carbon Tetrachloride	Sample num N.D.	nber(s): 8649 0.20	N.D.	1.3
Batch number: E1630130AA Carbon Tetrachloride Chloroethane	Sample num N.D. N.D.	nber(s): 8649 0.20 0.20	N.D. N.D.	1.3 0.53
Batch number: E1630130AA Carbon Tetrachloride Chloroethane 1,1-Dichloroethane	Sample num N.D. N.D. N.D.	nber(s): 8649 0.20 0.20 0.20	N.D. N.D. N.D. N.D.	1.3 0.53 0.81
Batch number: E1630130AA Carbon Tetrachloride Chloroethane 1,1-Dichloroethane 1,2-Dichloroethane	Sample num N.D. N.D. N.D. N.D.	0.20 0.20 0.20 0.20 0.20	N.D. N.D. N.D. N.D. N.D. N.D.	1.3 0.53 0.81 0.81
Batch number: E1630130AA Carbon Tetrachloride Chloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene	Sample num N.D. N.D. N.D. N.D. N.D.	0.20 0.20 0.20 0.20 0.20 0.20	N.D. N.D. N.D. N.D. N.D. N.D.	1.3 0.53 0.81 0.81 0.79
Batch number: E1630130AA Carbon Tetrachloride Chloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene	Sample num N.D. N.D. N.D. N.D. N.D. N.D.	0.20 0.20 0.20 0.20 0.20 0.20 0.20	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	1.3 0.53 0.81 0.81 0.79
Batch number: E1630130AA Carbon Tetrachloride Chloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene	Sample num N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	1.3 0.53 0.81 0.81 0.79 0.79
Batch number: E1630130AA Carbon Tetrachloride Chloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethene	Sample num N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	1.3 0.53 0.81 0.81 0.79 0.79

#### LCS/LCSD

Analysis Name	LCS Spike Added ppb(v)	LCS Conc ppb (v)	LCSD Spike Added ppb(v)	LCSD Conc ppb (v)	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D1629530AA	Sample numbe	er(s): 8649:	137-8649145						
Carbon Tetrachloride	0.500	0.491	0.500	0.490	98	98	70-130	0	25
Chloroethane	0.500	0.449	0.500	0.401	90	80	70-130	1.1	25
1,1-Dichloroethane	0.500	0.492	0.500	0.494	98	99	70-130	0	25
1,2-Dichloroethane	0.500	0.518	0.500	0.499	104	100	61-154	4	25

<sup>\*-</sup> Outside of specification

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax; 717-656-2681 • www.LancasterLabs.com

### Quality Control Summary

Client Name: O'Brien & Gere, Inc.

Reported: 10/31/2016 13:34

Group Number: 1722292

### LCS/LCSD (continued)

Analysis Name	LCS Spike Added ppb(v)	LCS Conc ppb (v)	LCSD Spike Added ppb(v)	LCSD Conc ppb (v)	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethene	0.500	0.498	0.500	0.478	100	96	70-130	4	25
cis-1,2-Dichloroethene	0.500	0.418	0.500	0,430	84	86	54-118	3	25
trans-1,2-Dichloroethene	0.500	0.473	0.500	0.468	95	94	70-130	1	25
Tetrachloroethene	0.500	0.539	0.500	0.528	108	106	48-130	2	25
1,1,1-Trichloroethane	0.500	0.477	0.500	0.474	95	95	70-130	1	25
Trichloroethene	0.500	0.511	0.500	0.484	102	97	70-130	6	25
Vinyl Chloride	0.500	0.479	0.500	0.471	96	94	64-119	2	25
Batch number: D1630230AA	Sample numbe	er(s): 86491	141						
trans-1,2-Dichloroethene	0.500	0.548	0.500	0.537	110	107	70-130	2	25
Batch number: E1630130AA	Sample numbe	er(s): 8649	146-8649152						
Carbon Tetrachloride	10	9.84	10	10.35	98	104	70-130	5	25
Chloroethane	10	10.11	10	10.35	101	104	63-119	2	25
1,1-Dichloroethane	10	9.71	10	10.06	97	101	67-124	4	25
1,2-Dichloroethane	10	10.31	10	10.44	103	104	70-130	1	25
1,1-Dichloroethene	10	9.61	10	10.14	96	101	61-128	5	25
cis-1,2-Dichloroethene	10	9.22	10	9.55	92	96	65-121	4	25
trans-1,2-Dichloroethene	10	9.56	. 10	9.94	96	99	66-121	4	25
Tetrachloroethene	10	9.82	10	9.92	98	99	70-130	1	25
1,1,1-Trichloroethane	10	9.31	10	9.84	93	98	70-130	6	25
Trichloroethene	10	9.33	10	9.58	93	96	70-130	3	25
Vinyl Chloride	10	9.72	10	10.1	97	101	70-130	4	25

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

# Summa Canister Field Test Data/Chain of Custody

	-		
 CH	rof	ı	ns

Lancaster Laboratories Environmental Acct. # 08490 Group # 172 229 Sample # 172 229 Sample

Bottle Order (SCR) # <u>1 95 39</u>

· · · · · · · · · · · · · · · · · · ·	Client Informat	ion	A Color Colo	***************************************	7	urnaro	und Tim	e Requ	ested	( <b>TAT)</b> (ci	ircle one)	Turnaround Time Requested (TAT) (circle one)  Analyses					
OBrien & Gare		Account #	90		Ć.,	Standar	(d)	Rus	h (spec	ify)							
Project Name/#				£2 .au	Da	ta Pack	age Rec	uired?		EDD Re	equired?	(15)	뀖				
GE-Evendale - Build Project Manager	ing 800	Soil Vapor	Event	#2		Yes No			o Yes No				M M BE				
		P.O.#	1269			( 'immerrature			(	.1179-1-2		تر <del>ال</del> الراق ا	기 :	\$			
Matt Traister 11600269 Sempler Quote#							Tempera Start	iture (F) Stop	_	Start	re ("Hg) Stop	ξ,	<u>را ۾</u>	2			
C. Forren, T. Da		Quote# 2127	72A		Ambi	ent 5-	C P	72°F		Clart	оюр	9	Select range below	) 5			
Name of state where samples were collected					Maxim	ium						<u>.</u>	] { 	3 9		_	
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	(24-hour clock)	(24-hour clock)	(Start)	(Stop)	(Start)	(Slop)	Flow R		Can ID	( <u>L</u> )	(mL/min)		נו נו	ijΪ	0,	ij	
V 300-6-IA		10/12/16 1231		- (. 4		70	2482		1360	6	10.3	Х	$\perp$	$\bot$			
V 300-3-IA	19/10/16 +36	16/12/16 1536		- D.	3		966	103	1406	6	10.5	X	_ _				
V 300 - AA = 1	16 (12/16 834	10/12/16 1605	-28.7	-11 C			930	842	14zc	6	10,4	Χ					
1 300-5 BETA	10/12/11 S 15	14/12/16/15/16	-28 B	in of	3		950	W34	SY	G	10.5	Χ					
V 300-2-IA	10112/16 712	10/12/16 1500	729.2	-H. G	. J	$\overline{}$	958	1115	515	6	10.4	X					
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1 800-1-IA	10/12/16 x00	10/12/10/1459	-29.3	-30	1 -1	70	2499	35	SUF	6	10.4	χ	mez:				
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1800-AA-2	1412116539	10/12/16/16/11	-29.5	-4,5			4152	76	829	6	10,6	χ					
1 800 - H-TA	10/12/16 726	19 12/16 15/16	-24. G	I make to	ó l		239	314	32r	6	10,6	λ					
1 800-7-85	10/12/16 (32	11216 H32	-29 5	-12,94	ran V	1	3169	50	8 5-6	6	10.4	X					
Instructions/OC Requirements 8	Ն Comments				W	·	EPA 25	(check	one)		C1 - C4	[	□ c	2 <sub>.</sub> - C	10		
Please analyse Chlorin	nted VCC	list on	ly.								C1 - C10	[	⊐ c	4 - C	10 (C	RO)	
— Empreyade programme 19 form on a statement of the 19 for the 19											C2 - C4						
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	5/16	OF OK	(0)	7/16/4	CC			Date:	Times	Danie (1)	here general general services	property.		Det	Tine -		
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Relinquished by: Date	e/Time: Received t	yy:	Date	/Time;	Relinquished b	Pobl	Ed	Dale/	Time: Y/16/	Received I	9800+C	2		1.	/Time -18-1		

# Summa Canister Field Test Data/Chain of Custody

pK	I			
🔅 eurofins	Lancaster Laboratories Environmental	Acct.# 08496 Group#	For Eurofins Lancaster Laboratories Environmental use only Sample #	_Bottle Order (SCR) #

	Client I						T	urnaroi	und Tim	e Req	uested	(TAT) (c	ircle one)	Αı	nalys	es Re	quest	ed
O'Brown & Gure			Account#	90				Standar	d )	Ru	sh (spe	cify)		(46)				
O'Brien 9 Gere  Project Name##  6E-Evendale -  Project Manager	Britd	ing	800 Sui	l Vapo	r Enn	<i>† 4</i>	Dat		age Rec				equired?		LI MTBE			
Project Manager  Math Traister		0	P.O.# 116,00	726°G			(	Yes y	Tempera	No ture (E)		Yes y	No ire ("Hg)	1	ءِ ا			
Matt Traister  Sampler  C. Forman T.  Name of state where samples were collected	Dutto	<i>l-</i> 2	Quote#	> 172	4.		Ambie	nt »	Start	Stop	)	Start	Stop	10, 0	BIEX Inge bek			
Name of state where samples were collected	7 P. S.		400-1		,		Maximu	ım	) F	14.	<i>'</i>			5 (chto	Select range below)	tracer	ਙ	,
Sample Identification	Date/	art /Time ır clock)	Stop Date/Time (24-hour clock)	Caniste Pressure Field ("H (Start)	in Pressur	re in 'Hg)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Flow Re	eg. fD	Can ID	Can Size (L)	Controller Flowrate (mL/min)	17	25   28	Helium as tr	02/C02 Library Search	, , , ,
1800-6-3S	10 19.11	60H3	10/12/16 144	34.t			70	70	848	and the second	820	6	10.4	χ				+
v 800-4-85	10(1246	1. 7.26	10/12/10-1516	-29.	10 - T.				9 581	15	1038	6	10, Z	4				
<u> 1 500- 2- 35 -                               </u>	10/12/1	4712	0/12/16/506	-29.	5 -4-				9587		1233	6	10-4	X				
<u> 1300-1-85</u>	10/12/	LOGIC	10/12/16/459	-27.	9.				-106	20	896	6	10- 2	$\chi$				
<u> 1800-23-33</u>	10115111	7.36	1912/16 1536	-24	<u> </u>	A			8-24		847	6	10-3					
1 300 - 3 - 95	10/12/10	810	relially just	-29.	6 -2.	2,	W	رال	640	487	ક્કળ	6	100	X				
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							<del>, ,</del>										+-	-
nstructions/QC Requiremen	ts & Comm	ents							EPA 25	(check	one)		C1 - C4	<u> </u>	_ c:	2 - C10	)	┷┪
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### Sample Administration Receipt Documentation Log

Doc Log ID:

165548

Group Number(s): 1727297

Client: O' Brien & Gere

**Delivery and Receipt Information** 

Delivery Method:

Fed Ex

Arrival Timestamp:

10/18/2016 15:10

Number of Packages:

<u>6</u>

Number of Projects:

1

State/Province of Origin:

<u>OH</u>

**Arrival Condition Summary** 

Yes Shipping Container Sealed: Custody Seal Present:

Νo

Sample IDs on COC match Containers: Sample Date/Times match COC:

Yes Yes

Samples Chilled:

N/A

VOA Vial Headspace ≥ 6mm; Total Trip Blank Qty:

N/A

0

Paperwork Enclosed:

Yes Yes

Air Quality Samples Present:

Yes

Samples Intact: Missing Samples:

No No

Air Quality Flow Controllers Present: Flow Controller Quantity:

Yes 17

Extra Samples: Discrepancy in Container Qty on COC: No

Air Quality Returns:

Yes

Summa Canisters:

1224

Unpacked by Melvin Sanchez (8943) at 15:36 on 10/18/2016



## **Explanation of Symbols and Abbreviations**

The following defines common symbols and abbreviations used in reporting technical data:

BMQL C	Below Minimum Quantitation Level degrees Celsius	mg mL	milligram(s) milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	none detected
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTŪ	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
Ĺ	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	μg	microgram(s)
m3	cubic meter(s)	μĹ	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm

less than

greater than

parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For ppm aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb

Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight basis

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

#### Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have guestions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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